

Table 23. Infant mortality rates, fetal mortality rates, and perinatal mortality rates, according to race: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| Race and year | Infant ¹ | Neonatal ¹ | | Postneonatal ¹ | Fetal mortality rate ² | Late fetal mortality rate ³ | Perinatal mortality rate ⁴ |
|------------------------------------|------------------------------|-----------------------|--------------|---------------------------|-----------------------------------|----------------------------------------|---------------------------------------|
| | | Under 28 days | Under 7 days | | | | |
| All races | Deaths per 1,000 live births | | | | | | |
| 1950 ⁵ | 29.2 | 20.5 | 17.8 | 8.7 | 18.4 | 14.9 | 32.5 |
| 1960 ⁵ | 26.0 | 18.7 | 16.7 | 7.3 | 15.8 | 12.1 | 28.6 |
| 1970 | 20.0 | 15.1 | 13.6 | 4.9 | 14.0 | 9.5 | 23.0 |
| 1980 | 12.6 | 8.5 | 7.1 | 4.1 | 9.1 | 6.2 | 13.2 |
| 1985 | 10.6 | 7.0 | 5.8 | 3.7 | 7.8 | 4.9 | 10.7 |
| 1990 | 9.2 | 5.8 | 4.8 | 3.4 | 7.5 | 4.3 | 9.1 |
| 1995 | 7.6 | 4.9 | 4.0 | 2.7 | 7.0 | 3.6 | 7.6 |
| 1996 | 7.3 | 4.8 | 3.8 | 2.5 | 6.9 | 3.6 | 7.4 |
| 1997 | 7.2 | 4.8 | 3.8 | 2.5 | 6.8 | 3.5 | 7.3 |
| 1998 | 7.2 | 4.8 | 3.8 | 2.4 | 6.7 | 3.4 | 7.2 |
| 1999 | 7.1 | 4.7 | 3.8 | 2.3 | --- | --- | --- |
| Race of child: ⁶ White | | | | | | | |
| 1950 ⁵ | 26.8 | 19.4 | 17.1 | 7.4 | 16.6 | 13.3 | 30.1 |
| 1960 ⁵ | 22.9 | 17.2 | 15.6 | 5.7 | 13.9 | 10.8 | 26.2 |
| 1970 | 17.8 | 13.8 | 12.5 | 4.0 | 12.3 | 8.6 | 21.0 |
| 1980 | 11.0 | 7.5 | 6.2 | 3.5 | 8.1 | 5.7 | 11.9 |
| Race of mother: ⁷ White | | | | | | | |
| 1980 | 10.9 | 7.4 | 6.1 | 3.5 | 8.1 | 5.7 | 11.8 |
| 1985 | 9.2 | 6.0 | 5.0 | 3.2 | 6.9 | 4.5 | 9.5 |
| 1990 | 7.6 | 4.8 | 3.9 | 2.8 | 6.4 | 3.8 | 7.7 |
| 1995 | 6.3 | 4.1 | 3.3 | 2.2 | 5.9 | 3.3 | 6.5 |
| 1996 | 6.1 | 4.0 | 3.2 | 2.1 | 5.9 | 3.3 | 6.4 |
| 1997 | 6.0 | 4.0 | 3.2 | 2.0 | 5.8 | 3.2 | 6.3 |
| 1998 | 6.0 | 4.0 | 3.1 | 2.0 | 5.7 | 3.1 | 6.2 |
| 1999 | 5.8 | 3.9 | 3.1 | 1.9 | --- | --- | --- |
| Race of child: ⁶ Black | | | | | | | |
| 1950 ⁵ | 43.9 | 27.8 | 23.0 | 16.1 | 32.1 | --- | --- |
| 1960 ⁵ | 44.3 | 27.8 | 23.7 | 16.5 | --- | --- | --- |
| 1970 | 32.6 | 22.8 | 20.3 | 9.9 | 23.2 | --- | 34.5 |
| 1980 | 21.4 | 14.1 | 11.9 | 7.3 | 14.4 | 8.9 | 20.7 |
| Race of mother: ⁷ Black | | | | | | | |
| 1980 | 22.2 | 14.6 | 12.3 | 7.6 | 14.7 | 9.1 | 21.3 |
| 1985 | 19.0 | 12.6 | 10.8 | 6.4 | 12.8 | 7.2 | 17.9 |
| 1990 | 18.0 | 11.6 | 9.7 | 6.4 | 13.3 | 6.7 | 16.4 |
| 1995 | 15.1 | 9.8 | 8.2 | 5.3 | 12.7 | 5.7 | 13.8 |
| 1996 | 14.7 | 9.6 | 7.8 | 5.1 | 12.5 | 5.5 | 13.3 |
| 1997 | 14.2 | 9.4 | 7.8 | 4.8 | 12.5 | 5.5 | 13.2 |
| 1998 | 14.3 | 9.5 | 7.8 | 4.8 | 12.3 | 5.3 | 13.1 |
| 1999 | 14.6 | 9.8 | 7.9 | 4.8 | --- | --- | --- |

--- Data not available.

¹Infant (under 1 year of age), neonatal (under 28 days), early neonatal (under 7 days), and postneonatal (28 days–11 months).

²Number of fetal deaths of 20 weeks or more gestation per 1,000 live births plus fetal deaths.

³Number of fetal deaths of 28 weeks or more gestation per 1,000 live births plus late fetal deaths.

⁴Number of late fetal deaths plus infant deaths within 7 days of birth per 1,000 live births plus late fetal deaths.

⁵Includes births and deaths of persons who were not residents of the 50 States and the District of Columbia.

⁶Infant deaths are tabulated by race of decedent; live births and fetal deaths are tabulated by race of child (see Appendix II, Race).

⁷Infant deaths are tabulated by race of decedent; fetal deaths and live births are tabulated by race of mother (see Appendix II, Race).

NOTES: Infant mortality rates in this table are based on infant deaths from the mortality file (numerator) and live births from the natality file (denominator).

Inconsistencies in reporting race for the same infant between the birth and death certificate can result in underestimated infant mortality rates for races other than white or black. Infant mortality rates for minority population groups are available from the national linked files of live births and infant deaths and are presented in tables 20–21 and 24–25. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. National Vital Statistics System; *Vital statistics of the United States, vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data are available on the NCHS Web site at www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm; Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 28. Life expectancy at birth, at 65 years of age, and at 75 years of age, according to race and sex: United States, selected years 1900–99

[Data are based on the National Vital Statistics System]

| Specified age and year | All races | | | White | | | Black ¹ | | |
|------------------------|------------|------|------------------------------------|------------|------|--------|--------------------|------|--------|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| At birth | | | Remaining life expectancy in years | | | | | | |
| 1900 ^{2,3} | 47.3 | 46.3 | 48.3 | 47.6 | 46.6 | 48.7 | 33.0 | 32.5 | 33.5 |
| 1950 ³ | 68.2 | 65.6 | 71.1 | 69.1 | 66.5 | 72.2 | 60.8 | 59.1 | 62.9 |
| 1960 ³ | 69.7 | 66.6 | 73.1 | 70.6 | 67.4 | 74.1 | 63.6 | 61.1 | 66.3 |
| 1970 | 70.8 | 67.1 | 74.7 | 71.7 | 68.0 | 75.6 | 64.1 | 60.0 | 68.3 |
| 1980 | 73.7 | 70.0 | 77.4 | 74.4 | 70.7 | 78.1 | 68.1 | 63.8 | 72.5 |
| 1985 | 74.7 | 71.1 | 78.2 | 75.3 | 71.8 | 78.7 | 69.3 | 65.0 | 73.4 |
| 1990 | 75.4 | 71.8 | 78.8 | 76.1 | 72.7 | 79.4 | 69.1 | 64.5 | 73.6 |
| 1991 | 75.5 | 72.0 | 78.9 | 76.3 | 72.9 | 79.6 | 69.3 | 64.6 | 73.8 |
| 1992 | 75.8 | 72.3 | 79.1 | 76.5 | 73.2 | 79.8 | 69.6 | 65.0 | 73.9 |
| 1993 | 75.5 | 72.2 | 78.8 | 76.3 | 73.1 | 79.5 | 69.2 | 64.6 | 73.7 |
| 1994 | 75.7 | 72.4 | 79.0 | 76.5 | 73.3 | 79.6 | 69.5 | 64.9 | 73.9 |
| 1995 | 75.8 | 72.5 | 78.9 | 76.5 | 73.4 | 79.6 | 69.6 | 65.2 | 73.9 |
| 1996 | 76.1 | 73.1 | 79.1 | 76.8 | 73.9 | 79.7 | 70.2 | 66.1 | 74.2 |
| 1997 | 76.5 | 73.6 | 79.4 | 77.1 | 74.3 | 79.9 | 71.1 | 67.2 | 74.7 |
| 1998 | 76.7 | 73.8 | 79.5 | 77.3 | 74.5 | 80.0 | 71.3 | 67.6 | 74.8 |
| 1999 | 76.7 | 73.9 | 79.4 | 77.3 | 74.6 | 79.9 | 71.4 | 67.8 | 74.7 |
| At 65 years | | | | | | | | | |
| 1950 ² | 13.9 | 12.8 | 15.0 | --- | 12.8 | 15.1 | 13.9 | 12.9 | 14.9 |
| 1960 ² | 14.3 | 12.8 | 15.8 | 14.4 | 12.9 | 15.9 | 13.9 | 12.7 | 15.1 |
| 1970 | 15.2 | 13.1 | 17.0 | 15.2 | 13.1 | 17.1 | 14.2 | 12.5 | 15.7 |
| 1980 | 16.4 | 14.1 | 18.3 | 16.5 | 14.2 | 18.4 | 15.1 | 13.0 | 16.8 |
| 1985 | 16.7 | 14.5 | 18.5 | 16.8 | 14.5 | 18.7 | 15.2 | 13.0 | 16.9 |
| 1990 | 17.2 | 15.1 | 18.9 | 17.3 | 15.2 | 19.1 | 15.4 | 13.2 | 17.2 |
| 1991 | 17.4 | 15.3 | 19.1 | 17.5 | 15.4 | 19.2 | 15.5 | 13.4 | 17.2 |
| 1992 | 17.5 | 15.4 | 19.2 | 17.6 | 15.5 | 19.3 | 15.7 | 13.5 | 17.4 |
| 1993 | 17.3 | 15.3 | 18.9 | 17.4 | 15.4 | 19.0 | 15.5 | 13.4 | 17.1 |
| 1994 | 17.4 | 15.5 | 19.0 | 17.5 | 15.6 | 19.1 | 15.7 | 13.6 | 17.2 |
| 1995 | 17.4 | 15.6 | 18.9 | 17.6 | 15.7 | 19.1 | 15.6 | 13.6 | 17.1 |
| 1996 | 17.5 | 15.7 | 19.0 | 17.6 | 15.8 | 19.1 | 15.8 | 13.9 | 17.2 |
| 1997 | 17.7 | 15.9 | 19.2 | 17.8 | 16.0 | 19.3 | 16.1 | 14.2 | 17.6 |
| 1998 | 17.8 | 16.0 | 19.2 | 17.8 | 16.1 | 19.3 | 16.1 | 14.3 | 17.4 |
| 1999 | 17.7 | 16.1 | 19.1 | 17.8 | 16.1 | 19.2 | 16.0 | 14.3 | 17.3 |
| At 75 years | | | | | | | | | |
| 1980 | 10.4 | 8.8 | 11.5 | 10.4 | 8.8 | 11.5 | 9.7 | 8.3 | 10.7 |
| 1985 | 10.6 | 9.0 | 11.7 | 10.6 | 9.0 | 11.7 | 10.1 | 8.7 | 11.1 |
| 1990 | 10.9 | 9.4 | 12.0 | 11.0 | 9.4 | 12.0 | 10.2 | 8.6 | 11.2 |
| 1991 | 11.1 | 9.5 | 12.1 | 11.1 | 9.5 | 12.1 | 10.2 | 8.7 | 11.2 |
| 1992 | 11.2 | 9.6 | 12.2 | 11.2 | 9.6 | 12.2 | 10.4 | 8.9 | 11.4 |
| 1993 | 10.9 | 9.5 | 11.9 | 11.0 | 9.5 | 12.0 | 10.2 | 8.7 | 11.1 |
| 1994 | 11.0 | 9.6 | 12.0 | 11.1 | 9.6 | 12.0 | 10.3 | 8.9 | 11.2 |
| 1995 | 11.0 | 9.7 | 11.9 | 11.1 | 9.7 | 12.0 | 10.2 | 8.8 | 11.1 |
| 1996 | 11.1 | 9.8 | 12.0 | 11.1 | 9.8 | 12.0 | 10.3 | 9.0 | 11.2 |
| 1997 | 11.2 | 9.9 | 12.1 | 11.2 | 9.9 | 12.1 | 10.7 | 9.3 | 11.5 |
| 1998 | 11.3 | 10.0 | 12.2 | 11.3 | 10.0 | 12.2 | 10.5 | 9.2 | 11.3 |
| 1999 | 11.2 | 10.0 | 12.1 | 11.2 | 10.0 | 12.1 | 10.4 | 9.2 | 11.1 |

¹Data shown for 1900–60 are for the nonwhite population.

²Death registration area only. The death registration area increased from 10 States and the District of Columbia in 1900 to the coterminous United States in 1933.

³Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

NOTES: Beginning in 1997 life table methodology was revised to construct complete life tables by single years of age that extend to age 100. (Anderson RN. Method for Constructing Complete Annual U.S. Life Tables. National Center for Health Statistics. Vital Health Stat 2(129). 1999.) Previously abridged life tables were constructed for five-year age groups ending with the age group 85 years and over. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Grove RD and Hetzel AM. Vital Statistics Rates in the United States, 1940–1960. DHEW Pub. No. (PHS) 1677. Public Health Service. Washington: U.S. Government Printing Office, 1968; life expectancy trend data available at www.cdc.gov/nchs/about/major/dvs/mortdata.htm; Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 29 (page 1 of 2). Age-adjusted death rates, according to race, Hispanic origin, geographic division, and State: United States, average annual 1979–81, 1989–91, and 1997–99

[Data are based on the National Vital Statistics System]

| Geographic division and State | All persons | | | White | Black | American Indian or Alaska Native | Asian or Pacific Islander | Hispanic | White, non-Hispanic |
|-----------------------------------------------------|-------------|---------|---------|---------|---------|-------------------------------------------|---------------------------------|----------|------------------------|
| | 1979–81 | 1989–91 | 1997–99 | 1997–99 | 1997–99 | 1997–99 | 1997–99 | 1997–99 | 1997–99 |
| Deaths per 100,000 resident population ¹ | | | | | | | | | |
| United States | 1,022.8 | 942.2 | 879.8 | 858.4 | 1,141.9 | 710.8 | 518.9 | 601.2 | 866.3 |
| New England | 979.9 | 882.4 | 826.6 | 824.0 | 975.0 | * | 428.4 | 474.3 | 821.5 |
| Maine | 1,002.9 | 918.7 | 897.2 | 897.9 | 895.1 | * | 505.9 | * | 886.4 |
| New Hampshire | 982.3 | 891.7 | 849.7 | 853.6 | 514.5 | * | 358.1 | 272.8 | 835.9 |
| Vermont | 990.2 | 908.6 | 862.8 | 864.7 | * | * | * | * | 866.9 |
| Massachusetts | 982.6 | 884.8 | 819.4 | 818.6 | 964.5 | * | 478.2 | 468.4 | 819.8 |
| Rhode Island | 990.8 | 889.6 | 828.3 | 821.6 | 1,155.9 | * | 432.8 | 367.2 | 817.8 |
| Connecticut | 961.5 | 857.5 | 802.9 | 791.9 | 987.0 | * | 318.3 | 531.6 | 788.7 |
| Middle Atlantic | 1,059.1 | 967.8 | 865.9 | 852.2 | 1,018.1 | * | 416.8 | 539.5 | 853.7 |
| New York | 1,051.8 | 973.7 | 839.9 | 834.3 | 917.1 | * | 460.7 | 567.0 | 827.1 |
| New Jersey | 1,047.5 | 956.0 | 855.0 | 837.8 | 1,084.7 | * | 305.5 | 425.0 | 858.0 |
| Pennsylvania | 1,076.4 | 963.4 | 906.8 | 882.2 | 1,212.8 | * | 431.4 | 690.3 | 881.5 |
| East North Central | 1,048.0 | 957.9 | 901.3 | 872.9 | 1,189.7 | * | 402.9 | 473.2 | 873.4 |
| Ohio | 1,070.6 | 967.4 | 930.0 | 909.3 | 1,160.2 | * | 355.7 | 544.3 | 903.4 |
| Indiana | 1,048.3 | 962.0 | 932.9 | 914.3 | 1,232.3 | * | 383.8 | 452.3 | 918.9 |
| Illinois | 1,063.7 | 973.8 | 889.5 | 847.7 | 1,242.2 | * | 387.4 | 449.4 | 855.3 |
| Michigan | 1,050.2 | 966.0 | 899.5 | 865.0 | 1,146.3 | * | 440.2 | 573.5 | 859.0 |
| Wisconsin | 956.4 | 879.1 | 833.0 | 819.1 | 1,161.7 | * | 571.5 | 332.7 | 822.5 |
| West North Central | 951.6 | 876.6 | 850.9 | 833.2 | 1,212.9 | * | 545.4 | 563.1 | 830.7 |
| Minnesota | 892.9 | 825.2 | 783.5 | 774.6 | 1,057.7 | 1,196.9 | 619.4 | 572.3 | 770.6 |
| Iowa | 919.9 | 848.2 | 812.6 | 809.0 | 1,105.8 | * | 616.1 | 532.4 | 810.0 |
| Missouri | 1,033.7 | 952.4 | 946.4 | 917.9 | 1,258.5 | * | 531.1 | 729.2 | 918.4 |
| North Dakota | 922.4 | 818.4 | 796.6 | 780.5 | * | 1,637.4 | * | * | 757.2 |
| South Dakota | 941.9 | 846.4 | 817.0 | 777.9 | * | 1,770.0 | * | * | 779.5 |
| Nebraska | 930.6 | 867.9 | 832.6 | 819.7 | 1,234.4 | 1,570.1 | 364.4 | 450.3 | 819.6 |
| Kansas | 940.1 | 867.2 | 848.0 | 835.9 | 1,147.8 | * | 467.9 | 522.8 | 829.2 |
| South Atlantic | 1,033.1 | 951.3 | 898.8 | 849.3 | 1,176.2 | * | 388.7 | 593.5 | 859.9 |
| Delaware | 1,069.7 | 1,001.9 | 920.1 | 889.6 | 1,134.2 | * | 309.7 | 606.0 | 890.8 |
| Maryland | 1,063.3 | 985.2 | 912.8 | 847.5 | 1,174.1 | * | 411.6 | # | 862.4 |
| District of Columbia | 1,243.1 | 1,255.3 | 1,093.0 | 688.0 | 1,334.3 | * | 453.2 | # | 734.7 |
| Virginia | 1,054.0 | 963.1 | 908.5 | 868.1 | 1,159.9 | * | 424.7 | 369.7 | 872.7 |
| West Virginia | 1,100.3 | 1,031.5 | 1,013.5 | 1,012.9 | 1,161.2 | * | * | 315.5 | 1,015.2 |
| North Carolina | 1,050.4 | 986.0 | 938.9 | 883.4 | 1,192.2 | 997.0 | 403.9 | 281.1 | 885.4 |
| South Carolina | 1,104.6 | 1,030.0 | 977.1 | 908.2 | 1,204.0 | * | 443.7 | 313.0 | 910.8 |
| Georgia | 1,094.3 | 1,037.4 | 982.1 | 932.3 | 1,175.0 | * | 467.2 | 328.7 | 937.0 |
| Florida | 960.8 | 870.9 | 826.4 | 796.6 | 1,169.8 | * | 309.7 | 649.4 | 812.2 |
| East South Central | 1,079.3 | 1,031.6 | 1,014.4 | 974.6 | 1,238.1 | * | 448.6 | 453.6 | 975.8 |
| Kentucky | 1,088.9 | 1,024.5 | 998.7 | 989.2 | 1,194.0 | * | 401.2 | 883.3 | 988.1 |
| Tennessee | 1,045.5 | 1,011.8 | 1,006.0 | 967.4 | 1,294.1 | * | 486.0 | 421.9 | 969.4 |
| Alabama | 1,091.2 | 1,037.9 | 1,010.7 | 962.5 | 1,203.9 | * | 401.5 | 297.4 | 964.8 |
| Mississippi | 1,108.7 | 1,071.4 | 1,062.4 | 988.4 | 1,248.4 | * | 494.6 | 281.9 | 990.3 |
| West South Central | 1,036.8 | 974.9 | 933.1 | 909.6 | 1,181.3 | * | 425.4 | 697.3 | 933.5 |
| Arkansas | 1,017.0 | 996.3 | 1,002.3 | 970.5 | 1,273.9 | * | 575.5 | 302.8 | 975.0 |
| Louisiana | 1,132.6 | 1,074.6 | 1,023.7 | 949.8 | 1,241.5 | * | 462.0 | 445.9 | 959.9 |
| Oklahoma | 1,025.6 | 961.4 | 978.0 | 985.5 | 1,182.2 | * | 571.2 | 494.7 | 990.8 |
| Texas | 1,014.9 | 947.6 | 891.4 | 875.9 | 1,129.4 | * | 407.1 | 711.2 | 904.1 |
| Mountain | 961.8 | 878.2 | 838.9 | 834.2 | 948.1 | 985.7 | 532.5 | 732.8 | 835.6 |
| Montana | 1,013.6 | 890.2 | 855.7 | 837.2 | * | 1,364.6 | * | 563.0 | 835.2 |
| Idaho | 936.7 | 856.6 | 820.0 | 820.0 | 769.4 | 911.9 | 581.3 | 468.7 | 825.6 |
| Wyoming | 1,016.1 | 897.4 | 887.6 | 881.4 | 918.8 | 1,424.6 | * | 711.2 | 884.2 |
| Colorado | 941.1 | 856.1 | 804.3 | 805.0 | 946.0 | 542.3 | 455.1 | 700.9 | 808.7 |
| New Mexico | 967.1 | 891.9 | 846.4 | 841.0 | 729.6 | 978.3 | 508.9 | 834.2 | 823.6 |
| Arizona | 951.5 | 873.5 | 839.5 | 828.2 | 1,001.6 | 1,082.7 | 476.6 | 770.6 | 822.5 |
| Utah | 924.9 | 823.2 | 784.8 | 785.7 | 951.9 | 686.2 | 639.3 | 601.9 | 788.4 |
| Nevada | 1,077.4 | 1,017.4 | 960.9 | 973.2 | 996.7 | 593.2 | 621.9 | 422.4 | 1,009.5 |

See footnotes at end of table.

Table 29 (page 2 of 2). Age-adjusted death rates, according to race, Hispanic origin, geographic division, and State: United States, average annual 1979–81, 1989–91, and 1997–99

[Data are based on the National Vital Statistics System]

| Geographic division and State | All persons | | | White | Black | American Indian or Alaska Native | Asian or Pacific Islander | Hispanic | White, non-Hispanic |
|-----------------------------------------------------|-------------|---------|---------|---------|---------|-------------------------------------------|---------------------------------|----------|------------------------|
| | 1979–81 | 1989–91 | 1997–99 | 1997–99 | 1997–99 | 1997–99 | 1997–99 | 1997–99 | 1997–99 |
| Deaths per 100,000 resident population ¹ | | | | | | | | | |
| Pacific | 966.5 | 900.1 | 801.8 | 812.7 | 1045.1 | * | 579.4 | 562.3 | 838.3 |
| Washington | 947.7 | 869.4 | 813.6 | 816.2 | 987.0 | 859.6 | 543.2 | 442.2 | 820.5 |
| Oregon | 953.9 | 893.0 | 853.8 | 855.5 | 1037.8 | * | 559.4 | 424.8 | 860.7 |
| California | 975.5 | 911.0 | 798.0 | 809.4 | 1056.1 | * | 543.5 | 566.7 | 843.8 |
| Alaska | 1,087.4 | 944.6 | 826.8 | 776.4 | 695.2 | 1243.4 | 512.8 | 449.4 | 782.6 |
| Hawaii | 801.2 | 752.2 | 687.5 | 643.1 | 394.8 | * | 713.4 | 631.2 | 645.4 |

* Data for States with population under 10,000 in the middle year of a 3-year period or fewer than 50 deaths for the 3-year period are considered unreliable and are not shown. Data for American Indian or Alaska Native in States with more than 10 percent misclassification of American Indian or Alaska Native deaths on death certificates or without information on misclassification are also not shown. (Support Services International, Inc. Methodology for adjusting IHS mortality data for miscoding race-ethnicity of American Indians and Alaska Natives on State death certificates. Report submitted to Indian Health Service. 1996.) Division death rates for American Indian or Alaska Native are not shown when any State within the division does not meet reliability criteria.

Estimates of Hispanic death rates in Maryland (116.2 deaths per 1,000 population) and the District of Columbia (DC) (121.3) are substantially lower than for other States and are likely to be underestimates of actual death rates, possibly due to misreporting of Hispanic origin on some death certificates and/or inaccurate Hispanic population estimates for Maryland and DC.

¹Average annual death rate. Denominators are population estimates for the middle year of each 3-year period, multiplied by 3.

NOTES: Age-adjusted rates are calculated using the year 2000 standard population starting with Health, United States, 2001. See Appendix II, Age adjustment. The race groups, white, black, American Indian or Alaska Native, and Asian or Pacific Islander, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. Rates computed by the Division of Health and Utilization Analysis from mortality data compiled by the Division of Vital Statistics and from State population estimates prepared by the U.S. Bureau of the Census: 1980 from April 1, 1980 MARS Census File; 1990 from April 1, 1990 MARS Census File; 1998 from vintage 1998 postcensal series.

Table 30 (page 1 of 4). Age-adjusted death rates for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| | | | | | | | | | | | Comparability modified | |
|------------------------------------------------------|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|-------------------|---------------------------|--|
| Sex, race, Hispanic origin, and cause of death | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | 1998 ² | 1999 ³ | |
| All persons | | | | | | | | | | | | |
| Deaths per 100,000 standard population | | | | | | | | | | | | |
| All causes | 1,446.0 | 1,339.2 | 1,222.6 | 1,039.1 | 938.7 | 918.5 | 902.4 | 887.3 | 875.8 | --- | 881.9 | |
| Natural causes | 1,349.0 | 1,258.5 | 1,135.5 | 967.1 | 878.2 | 860.8 | 845.5 | 831.1 | 820.1 | --- | 826.5 | |
| Diseases of heart | 586.8 | 559.0 | 492.7 | 412.1 | 321.8 | 296.3 | 288.3 | 280.4 | 272.4 | 268.5 | 267.8 | |
| Ischemic heart disease | --- | --- | --- | 345.2 | 249.6 | 221.9 | 214.0 | 205.6 | 197.9 | 197.7 | 195.6 | |
| Cerebrovascular diseases | 180.7 | 177.9 | 147.7 | 96.2 | 65.3 | 63.8 | 63.0 | 61.7 | 59.5 | 63.0 | 61.8 | |
| Malignant neoplasms | 193.9 | 193.9 | 198.6 | 207.9 | 216.0 | 211.7 | 208.7 | 205.7 | 202.4 | 203.8 | 202.7 | |
| Trachea, bronchus, and lung | 15.0 | 24.1 | 37.1 | 49.9 | 59.3 | 58.9 | 58.4 | 58.1 | 57.6 | 56.7 | 56.0 | |
| Colon, rectum, and anus | --- | 30.3 | 28.9 | 27.4 | 24.5 | 22.7 | 21.9 | 21.6 | 21.2 | 21.2 | 21.1 | |
| Prostate ⁴ | 28.6 | 28.7 | 28.8 | 32.8 | 38.4 | 37.1 | 35.6 | 33.8 | 32.0 | 32.4 | 30.9 | |
| Breast ⁵ | 31.9 | 31.7 | 32.1 | 31.9 | 33.3 | 30.8 | 29.8 | 28.6 | 27.9 | 28.1 | 27.0 | |
| Chronic lower respiratory diseases | --- | --- | --- | 28.3 | 37.2 | 40.5 | 41.0 | 41.5 | 42.0 | 44.0 | 45.8 | |
| Influenza and pneumonia | 48.1 | 53.7 | 41.7 | 31.4 | 36.8 | 33.8 | 33.2 | 33.6 | 34.6 | 24.2 | 23.6 | |
| Chronic liver disease and cirrhosis | 11.3 | 13.3 | 17.8 | 15.1 | 11.1 | 10.0 | 9.8 | 9.6 | 9.5 | 9.8 | 9.7 | |
| Diabetes mellitus | 23.1 | 22.5 | 24.3 | 18.1 | 20.7 | 23.4 | 24.0 | 24.0 | 24.2 | 24.4 | 25.2 | |
| Human immunodeficiency virus (HIV) disease | --- | --- | --- | --- | 10.2 | 16.3 | 11.7 | 6.1 | 4.9 | 5.6 | 5.4 | |
| External causes | 97.0 | 80.7 | 87.2 | 72.0 | 60.5 | 57.8 | 56.9 | 56.1 | 55.7 | --- | 55.4 | |
| Unintentional injuries | 78.4 | 63.1 | 62.2 | 46.4 | 36.3 | 34.9 | 34.9 | 34.8 | 35.0 | 36.1 | 35.9 | |
| Motor vehicle-related injuries | 24.6 | 23.1 | 27.6 | 22.3 | 18.5 | 16.5 | 16.5 | 16.3 | 16.1 | 15.7 | 15.5 | |
| Suicide | 13.2 | 12.5 | 13.1 | 12.2 | 12.5 | 12.0 | 11.7 | 11.4 | 11.3 | 11.3 | 10.7 | |
| Homicide | 5.1 | 5.0 | 8.8 | 10.4 | 9.4 | 8.4 | 7.6 | 7.2 | 6.5 | 6.5 | 6.2 | |
| Male | | | | | | | | | | | | |
| All causes | 1,674.2 | 1,609.0 | 1,542.1 | 1,348.1 | 1,202.8 | 1,150.3 | 1,117.5 | 1,090.5 | 1,064.6 | --- | 1,061.8 | |
| Natural causes | --- | --- | --- | 1,238.3 | 1,110.5 | 1,063.0 | 1,032.6 | 1,007.0 | 982.2 | --- | 980.2 | |
| Diseases of heart | 697.0 | 687.6 | 634.0 | 538.9 | 412.4 | 372.7 | 360.7 | 349.6 | 336.6 | 331.8 | 328.1 | |
| Ischemic heart disease | --- | --- | --- | 459.7 | 328.2 | 287.8 | 276.9 | 265.7 | 254.1 | 253.8 | 249.0 | |
| Cerebrovascular diseases | 186.4 | 186.1 | 157.4 | 102.2 | 68.5 | 66.1 | 65.1 | 63.8 | 59.9 | 63.4 | 62.4 | |
| Malignant neoplasms | 208.1 | 225.1 | 247.6 | 271.2 | 280.4 | 268.8 | 263.2 | 258.0 | 252.4 | 254.1 | 251.6 | |
| Trachea, bronchus, and lung | 24.6 | 43.6 | 67.5 | 85.2 | 91.1 | 84.7 | 82.9 | 81.6 | 79.9 | 78.6 | 77.0 | |
| Colon, rectum, and anus | --- | 31.8 | 32.3 | 32.8 | 30.4 | 27.5 | 26.5 | 26.0 | 25.4 | 25.4 | 25.2 | |
| Prostate | 28.6 | 28.7 | 28.8 | 32.8 | 38.4 | 37.1 | 35.6 | 33.8 | 32.0 | 32.4 | 30.9 | |
| Chronic lower respiratory diseases | --- | --- | --- | 49.9 | 55.5 | 55.0 | 54.2 | 54.6 | 54.0 | 56.6 | 58.1 | |
| Influenza and pneumonia | 55.0 | 65.8 | 54.0 | 42.1 | 47.8 | 42.9 | 41.7 | 42.0 | 42.3 | 29.5 | 28.0 | |
| Chronic liver disease and cirrhosis | 15.0 | 18.5 | 24.8 | 21.3 | 15.9 | 14.3 | 13.9 | 13.6 | 13.4 | 13.9 | 13.7 | |
| Diabetes mellitus | 18.8 | 19.9 | 23.0 | 18.1 | 21.7 | 25.2 | 26.1 | 26.2 | 26.7 | 26.9 | 27.7 | |
| Human immunodeficiency virus (HIV) disease | --- | --- | --- | --- | 18.5 | 27.7 | 19.2 | 9.7 | 7.7 | 8.8 | 8.4 | |
| External causes | --- | --- | --- | 109.8 | 92.3 | 87.3 | 84.9 | 83.5 | 82.4 | --- | 81.6 | |
| Unintentional injuries | 102.2 | 86.3 | 90.1 | 69.0 | 52.9 | 50.2 | 49.5 | 49.2 | 49.4 | 50.9 | 50.6 | |
| Motor vehicle-related injuries | 38.5 | 35.4 | 41.5 | 33.6 | 26.5 | 23.1 | 22.8 | 22.4 | 22.4 | 21.8 | 21.8 | |
| Suicide | 21.2 | 20.0 | 19.8 | 19.9 | 21.5 | 20.6 | 20.0 | 19.4 | 19.2 | 19.1 | 18.2 | |
| Homicide | 7.9 | 7.5 | 14.3 | 16.6 | 14.8 | 13.1 | 11.9 | 11.2 | 10.0 | 10.0 | 9.4 | |
| Female | | | | | | | | | | | | |
| All causes | 1,236.0 | 1,105.3 | 971.4 | 817.9 | 750.9 | 748.2 | 742.8 | 736.3 | 732.7 | --- | 743.6 | |
| Natural causes | --- | --- | --- | 779.8 | 718.9 | 717.1 | 711.3 | 705.0 | 701.2 | --- | 712.0 | |
| Diseases of heart | 484.7 | 447.0 | 381.6 | 320.8 | 257.0 | 239.7 | 234.1 | 228.1 | 223.1 | 219.9 | 220.9 | |
| Ischemic heart disease | --- | --- | --- | 263.1 | 193.9 | 173.6 | 167.7 | 160.9 | 155.6 | 155.4 | 154.9 | |
| Cerebrovascular diseases | 175.8 | 170.7 | 140.0 | 91.7 | 62.6 | 61.4 | 60.8 | 59.5 | 58.2 | 61.6 | 60.5 | |
| Malignant neoplasms | 182.3 | 168.7 | 163.2 | 166.7 | 175.7 | 175.4 | 173.4 | 171.6 | 169.2 | 170.4 | 169.9 | |
| Trachea, bronchus, and lung | 5.8 | 7.5 | 13.1 | 24.4 | 37.1 | 40.7 | 40.9 | 41.4 | 41.5 | 40.8 | 40.8 | |
| Colon, rectum, and anus | --- | 29.1 | 26.5 | 23.8 | 20.6 | 19.3 | 18.7 | 18.4 | 18.2 | 18.2 | 18.1 | |
| Breast | 31.9 | 31.7 | 32.1 | 31.9 | 33.3 | 30.8 | 29.8 | 28.6 | 27.9 | 28.1 | 27.0 | |
| Chronic lower respiratory diseases | --- | --- | --- | 14.9 | 26.6 | 32.2 | 33.4 | 33.9 | 34.8 | 36.5 | 38.2 | |
| Influenza and pneumonia | 41.9 | 43.8 | 32.7 | 25.1 | 30.5 | 28.4 | 28.2 | 28.6 | 29.9 | 20.9 | 20.8 | |
| Chronic liver disease and cirrhosis | 7.8 | 8.7 | 11.9 | 9.9 | 7.1 | 6.2 | 6.1 | 6.2 | 6.0 | 6.2 | 6.1 | |
| Diabetes mellitus | 27.0 | 24.7 | 25.1 | 18.0 | 19.9 | 22.0 | 22.4 | 22.3 | 22.3 | 22.5 | 23.3 | |
| Human immunodeficiency virus (HIV) disease | --- | --- | --- | --- | 2.2 | 5.3 | 4.3 | 2.7 | 2.3 | 2.6 | 2.6 | |
| External causes | --- | --- | --- | 38.2 | 31.9 | 31.1 | 31.5 | 31.3 | 31.5 | --- | 31.6 | |
| Unintentional injuries | 54.5 | 40.7 | 36.8 | 26.1 | 21.5 | 21.3 | 21.9 | 21.8 | 22.1 | 22.8 | 22.7 | |
| Motor vehicle-related injuries | 11.5 | 11.7 | 14.9 | 11.8 | 11.0 | 10.4 | 10.6 | 10.6 | 10.3 | 10.0 | 9.8 | |
| Suicide | 5.6 | 5.6 | 7.4 | 5.7 | 4.8 | 4.4 | 4.3 | 4.4 | 4.3 | 4.3 | 4.1 | |
| Homicide | 2.4 | 2.6 | 3.7 | 4.4 | 4.0 | 3.8 | 3.5 | 3.2 | 3.1 | 3.1 | 2.9 | |

See footnotes at end of table.

Table 30 (page 2 of 4). Age-adjusted death rates for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and cause of death</i> | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | <i>Comparability modified 1998²</i> | 1999 ³ |
|-------------------------------------------------------|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|------------------------------------------------|-------------------|
| Deaths per 100,000 standard population | | | | | | | | | | | |
| White | | | | | | | | | | | |
| All causes | 1,410.8 | 1,311.3 | 1,193.3 | 1,012.7 | 909.8 | 890.0 | 877.6 | 864.9 | 854.7 | --- | 860.7 |
| Natural causes | --- | --- | --- | 945.0 | 853.3 | 835.6 | 823.5 | 811.4 | 801.0 | --- | 807.1 |
| Diseases of heart | 584.8 | 559.0 | 492.2 | 409.4 | 317.0 | 291.2 | 284.2 | 276.4 | 268.1 | 264.3 | 263.4 |
| Ischemic heart disease | --- | --- | --- | 347.6 | 249.7 | 221.1 | 214.0 | 205.3 | 197.5 | 197.3 | 194.5 |
| Cerebrovascular diseases | 175.5 | 172.7 | 143.5 | 93.2 | 62.8 | 61.3 | 60.8 | 59.6 | 57.4 | 60.8 | 59.8 |
| Malignant neoplasms | 194.6 | 193.1 | 196.7 | 204.2 | 211.6 | 207.8 | 205.3 | 202.2 | 199.3 | 200.7 | 199.8 |
| Trachea, bronchus, and lung | 15.2 | 24.0 | 36.7 | 49.2 | 58.6 | 58.6 | 58.3 | 58.0 | 57.5 | 56.6 | 56.0 |
| Colon, rectum, and anus | --- | 30.9 | 29.2 | 27.4 | 24.1 | 22.2 | 21.5 | 21.1 | 20.8 | 20.8 | 20.6 |
| Prostate ⁴ | 28.4 | 27.7 | 27.4 | 30.5 | 35.5 | 34.2 | 32.8 | 31.1 | 29.4 | 29.8 | 28.4 |
| Breast ⁵ | 32.4 | 32.0 | 32.5 | 32.1 | 33.2 | 30.4 | 29.4 | 28.0 | 27.3 | 27.5 | 26.4 |
| Chronic lower respiratory diseases | --- | --- | --- | 29.3 | 38.3 | 41.8 | 42.4 | 43.0 | 43.6 | 45.7 | 47.5 |
| Influenza and pneumonia | 44.8 | 50.4 | 39.8 | 30.9 | 36.4 | 33.3 | 32.8 | 33.3 | 34.4 | 24.0 | 23.4 |
| Chronic liver disease and cirrhosis | 11.5 | 13.2 | 16.6 | 13.9 | 10.5 | 9.7 | 9.6 | 9.6 | 9.4 | 9.7 | 9.7 |
| Diabetes mellitus | 22.9 | 21.7 | 22.9 | 16.7 | 18.8 | 21.1 | 21.6 | 21.5 | 21.9 | 22.1 | 22.8 |
| Human immunodeficiency virus (HIV) disease | --- | --- | --- | --- | 8.3 | 11.6 | 7.6 | 3.5 | 2.7 | 3.1 | 3.0 |
| External causes | --- | --- | --- | 67.7 | 56.5 | 54.4 | 54.1 | 53.5 | 53.7 | --- | 53.6 |
| Unintentional injuries | 77.4 | 61.2 | 59.8 | 45.3 | 35.5 | 34.3 | 34.5 | 34.3 | 34.8 | 35.9 | 35.7 |
| Motor vehicle-related injuries | 24.4 | 22.9 | 27.1 | 22.6 | 18.5 | 16.5 | 16.5 | 16.2 | 16.1 | 15.7 | 15.6 |
| Suicide | 13.9 | 13.1 | 13.8 | 13.0 | 13.4 | 12.8 | 12.5 | 12.3 | 12.2 | 12.2 | 11.5 |
| Homicide | 2.6 | 2.7 | 4.7 | 6.7 | 5.5 | 5.1 | 4.6 | 4.3 | 4.0 | 4.0 | 3.8 |
| Black | | | | | | | | | | | |
| All causes | 1,722.1 | 1,577.5 | 1,518.1 | 1,314.8 | 1,250.3 | 1,224.5 | 1,188.7 | 1,151.5 | 1,135.7 | --- | 1,147.1 |
| Natural causes | --- | --- | --- | 1,206.0 | 1,159.0 | 1,141.4 | 1,109.7 | 1,075.5 | 1,063.1 | --- | 1,075.7 |
| Diseases of heart | 586.7 | 548.3 | 512.0 | 455.3 | 391.5 | 367.2 | 354.0 | 345.0 | 340.6 | 335.8 | 336.7 |
| Ischemic heart disease | --- | --- | --- | 334.5 | 267.0 | 247.1 | 235.3 | 228.3 | 221.9 | 221.7 | 226.4 |
| Cerebrovascular diseases | 233.6 | 235.2 | 197.1 | 129.1 | 91.6 | 87.7 | 85.0 | 81.5 | 80.1 | 84.8 | 82.4 |
| Malignant neoplasms | 176.4 | 199.1 | 225.3 | 256.4 | 279.5 | 269.6 | 264.9 | 262.1 | 255.1 | 256.8 | 254.4 |
| Trachea, bronchus, and lung | 11.1 | 23.7 | 41.3 | 59.7 | 72.4 | 69.3 | 68.3 | 67.9 | 66.7 | 65.6 | 65.2 |
| Colon, rectum, and anus | --- | 22.8 | 26.1 | 28.3 | 30.6 | 29.5 | 28.5 | 28.8 | 28.2 | 28.2 | 28.6 |
| Prostate ⁴ | 30.9 | 41.2 | 48.5 | 61.1 | 77.0 | 75.7 | 75.6 | 71.1 | 68.7 | 69.6 | 66.5 |
| Breast ⁵ | 25.3 | 27.9 | 28.9 | 31.7 | 38.1 | 38.3 | 37.3 | 37.7 | 35.7 | 35.9 | 35.6 |
| Chronic lower respiratory diseases | --- | --- | --- | 19.2 | 28.1 | 30.3 | 30.8 | 30.3 | 30.8 | 32.3 | 33.7 |
| Influenza and pneumonia | 76.7 | 81.1 | 57.2 | 34.4 | 39.4 | 36.8 | 36.7 | 36.0 | 37.0 | 25.8 | 25.6 |
| Chronic liver disease and cirrhosis | 9.0 | 13.6 | 28.1 | 25.0 | 16.5 | 12.1 | 11.3 | 10.7 | 9.9 | 10.3 | 10.2 |
| Diabetes mellitus | 23.5 | 30.9 | 38.8 | 32.7 | 40.5 | 47.1 | 47.9 | 48.5 | 48.4 | 48.8 | 50.1 |
| Human immunodeficiency virus (HIV) disease | --- | --- | --- | --- | 26.7 | 54.9 | 44.2 | 26.6 | 22.1 | 25.3 | 24.2 |
| External causes | --- | --- | --- | 108.8 | 91.2 | 83.1 | 79.0 | 76.0 | 72.7 | --- | 71.4 |
| Unintentional injuries | 79.9 | 75.1 | 81.2 | 57.6 | 43.8 | 41.6 | 40.3 | 39.8 | 39.5 | 40.7 | 40.9 |
| Motor vehicle-related injuries | 26.0 | 24.2 | 31.1 | 20.2 | 18.8 | 16.9 | 17.0 | 17.3 | 17.2 | 16.8 | 16.2 |
| Suicide | 4.5 | 5.0 | 6.2 | 6.5 | 7.1 | 6.9 | 6.6 | 6.3 | 5.8 | 5.8 | 5.7 |
| Homicide | 28.3 | 26.0 | 44.0 | 39.0 | 36.3 | 30.2 | 27.6 | 25.2 | 22.6 | 22.6 | 20.6 |
| American Indian or Alaska Native | | | | | | | | | | | |
| All causes | --- | --- | --- | 867.0 | 716.3 | 716.5 | 702.6 | 711.6 | 705.2 | --- | 716.1 |
| Natural causes | --- | --- | --- | 735.2 | 628.3 | 632.5 | 617.6 | 622.6 | 620.6 | --- | 628.5 |
| Diseases of heart | --- | --- | --- | 240.6 | 200.6 | 183.6 | 179.6 | 182.1 | 174.4 | 171.9 | 171.4 |
| Ischemic heart disease | --- | --- | --- | 173.6 | 139.1 | 127.8 | 128.4 | 128.8 | 122.9 | 122.8 | 123.9 |
| Cerebrovascular diseases | --- | --- | --- | 57.8 | 40.7 | 42.3 | 41.7 | 39.2 | 37.7 | 39.9 | 39.7 |
| Malignant neoplasms | --- | --- | --- | 113.7 | 121.8 | 128.6 | 133.1 | 131.8 | 129.3 | 130.2 | 126.4 |
| Trachea, bronchus, and lung | --- | --- | --- | 20.7 | 30.9 | 35.3 | 36.0 | 36.3 | 38.2 | 37.6 | 34.9 |
| Colon, rectum, and anus | --- | --- | --- | 9.5 | 12.0 | 13.3 | 14.1 | 14.5 | 13.3 | 13.3 | 12.0 |
| Prostate ⁴ | --- | --- | --- | 20.7 | 17.8 | 18.5 | 20.9 | 19.3 | 15.9 | 16.1 | 12.5 |
| Breast ⁵ | --- | --- | --- | 10.8 | 13.7 | 14.6 | 17.8 | 13.1 | 14.2 | 14.3 | 15.4 |
| Chronic lower respiratory diseases | --- | --- | --- | 14.2 | 25.4 | 24.8 | 24.3 | 27.2 | 28.1 | 29.4 | 30.3 |
| Influenza and pneumonia | --- | --- | --- | 44.4 | 36.1 | 30.4 | 27.8 | 26.9 | 28.3 | 19.8 | 22.0 |
| Chronic liver disease and cirrhosis | --- | --- | --- | 45.3 | 24.1 | 28.9 | 25.3 | 24.2 | 25.9 | 26.9 | 28.2 |
| Diabetes mellitus | --- | --- | --- | 29.6 | 34.1 | 42.9 | 41.6 | 48.4 | 45.9 | 46.3 | 50.2 |
| Human immunodeficiency virus (HIV) disease | --- | --- | --- | --- | 1.8 | 7.1 | 4.3 | 2.5 | 2.3 | 2.6 | 3.1 |
| External causes | --- | --- | --- | 131.9 | 88.0 | 84.0 | 85.0 | 89.0 | 84.6 | --- | 87.6 |
| Unintentional injuries | --- | --- | --- | 99.0 | 62.6 | 58.0 | 60.4 | 62.7 | 59.9 | 61.7 | 61.1 |
| Motor vehicle-related injuries | --- | --- | --- | 54.5 | 32.5 | 31.4 | 33.3 | 32.8 | 31.9 | 31.1 | 31.7 |
| Suicide | --- | --- | --- | 11.9 | 11.7 | 11.5 | 12.3 | 12.4 | 12.6 | 12.6 | 11.8 |
| Homicide | --- | --- | --- | 15.5 | 10.4 | 10.7 | 9.2 | 10.4 | 9.1 | 9.1 | 10.6 |

See footnotes at end of table.

Table 30 (page 3 of 4). Age-adjusted death rates for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and cause of death</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|-------------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Asian or Pacific Islander | | | | | | | | | | | |
| Deaths per 100,000 standard population | | | | | | | | | | | |
| All causes | --- | --- | --- | 589.9 | 582.0 | 616.0 | 539.7 | 533.9 | 516.8 | --- | 517.5 |
| Natural causes | --- | --- | --- | 547.2 | 545.0 | 580.9 | 507.8 | 500.8 | 487.8 | --- | 489.0 |
| Diseases of heart | --- | --- | --- | 202.1 | 181.7 | 193.3 | 163.0 | 158.3 | 154.4 | 152.2 | 154.0 |
| Ischemic heart disease | --- | --- | --- | 168.2 | 139.6 | 144.3 | 121.9 | 116.5 | 115.3 | 115.2 | 115.5 |
| Cerebrovascular diseases | --- | --- | --- | 66.1 | 56.9 | 62.0 | 54.7 | 54.5 | 50.6 | 53.6 | 52.4 |
| Malignant neoplasms | --- | --- | --- | 126.1 | 134.2 | 143.0 | 128.8 | 127.2 | 124.2 | 125.0 | 125.3 |
| Trachea, bronchus, and lung | --- | --- | --- | 28.4 | 30.2 | 32.4 | 29.3 | 28.9 | 29.3 | 28.8 | 28.5 |
| Colon, rectum, and anus | --- | --- | --- | 16.4 | 14.4 | 15.3 | 13.7 | 13.5 | 13.7 | 13.7 | 12.2 |
| Prostate ⁴ | --- | --- | --- | 10.2 | 16.8 | 21.1 | 15.1 | 14.5 | 12.4 | 12.6 | 13.5 |
| Breast ⁵ | --- | --- | --- | 11.9 | 13.7 | 14.6 | 12.4 | 12.6 | 13.1 | 13.2 | 13.1 |
| Chronic lower respiratory diseases | --- | --- | --- | 12.9 | 19.4 | 21.6 | 18.5 | 19.6 | 17.2 | 18.0 | 19.2 |
| Influenza and pneumonia | --- | --- | --- | 24.0 | 31.4 | 33.7 | 28.0 | 27.9 | 29.8 | 20.8 | 15.6 |
| Chronic liver disease and cirrhosis | --- | --- | --- | 6.1 | 5.2 | 4.1 | 3.9 | 3.4 | 3.5 | 3.6 | 3.8 |
| Diabetes mellitus | --- | --- | --- | 12.6 | 14.6 | 18.3 | 16.8 | 18.3 | 16.9 | 17.0 | 18.4 |
| Human immunodeficiency virus (HIV) disease | --- | --- | --- | --- | 2.2 | 3.3 | 2.4 | 0.9 | 0.8 | 0.9 | 0.8 |
| External causes | --- | --- | --- | 42.7 | 37.0 | 35.1 | 31.9 | 33.1 | 29.0 | --- | 28.5 |
| Unintentional injuries | --- | --- | --- | 27.0 | 23.9 | 21.8 | 19.9 | 20.9 | 17.6 | 18.1 | 17.7 |
| Motor vehicle-related injuries | --- | --- | --- | 13.9 | 14.0 | 12.1 | 10.4 | 10.8 | 9.5 | 9.3 | 8.8 |
| Suicide | --- | --- | --- | 7.8 | 6.7 | 7.2 | 6.5 | 7.0 | 6.6 | 6.6 | 6.4 |
| Homicide | --- | --- | --- | 5.9 | 5.0 | 5.0 | 4.3 | 4.1 | 3.5 | 3.5 | 3.3 |
| Hispanic ⁶ | | | | | | | | | | | |
| All causes | --- | --- | --- | --- | 692.0 | 670.1 | 632.8 | 612.3 | 596.4 | --- | 601.0 |
| Natural causes | --- | --- | --- | --- | 632.0 | 614.8 | 581.2 | 563.8 | 549.1 | --- | 554.0 |
| Diseases of heart | --- | --- | --- | --- | 217.1 | 198.5 | 186.9 | 183.3 | 175.8 | 173.3 | 176.1 |
| Ischemic heart disease | --- | --- | --- | --- | 173.3 | 156.4 | 146.8 | 143.0 | 136.5 | 136.4 | 138.4 |
| Cerebrovascular diseases | --- | --- | --- | --- | 45.2 | 43.6 | 41.2 | 39.9 | 39.1 | 41.4 | 40.0 |
| Malignant neoplasms | --- | --- | --- | --- | 136.8 | 132.3 | 128.1 | 125.5 | 123.7 | 124.5 | 122.0 |
| Trachea, bronchus, and lung | --- | --- | --- | --- | 26.5 | 24.6 | 23.8 | 23.9 | 22.7 | 22.3 | 22.5 |
| Colon, rectum, and anus | --- | --- | --- | --- | 14.7 | 13.4 | 12.7 | 12.8 | 12.8 | 12.8 | 12.8 |
| Prostate ⁴ | --- | --- | --- | --- | 23.3 | 25.7 | 22.7 | 20.8 | 20.9 | 21.2 | 19.0 |
| Breast ⁵ | --- | --- | --- | --- | 19.5 | 18.1 | 18.4 | 17.8 | 16.8 | 16.9 | 15.4 |
| Chronic lower respiratory diseases | --- | --- | --- | --- | 19.3 | 21.2 | 20.2 | 19.6 | 18.6 | 19.5 | 19.9 |
| Influenza and pneumonia | --- | --- | --- | --- | 29.7 | 24.5 | 24.2 | 24.6 | 24.1 | 16.8 | 15.6 |
| Chronic liver disease and cirrhosis | --- | --- | --- | --- | 18.3 | 17.0 | 16.7 | 15.9 | 15.4 | 16.0 | 15.3 |
| Diabetes mellitus | --- | --- | --- | --- | 28.2 | 33.9 | 32.9 | 32.5 | 32.1 | 32.4 | 33.6 |
| Human immunodeficiency virus (HIV) disease | --- | --- | --- | --- | 16.3 | 25.6 | 17.5 | 8.9 | 6.7 | 7.7 | 7.3 |
| External causes | --- | --- | --- | --- | 60.0 | 55.3 | 51.5 | 48.4 | 47.3 | --- | 47.1 |
| Unintentional injuries | --- | --- | --- | --- | 34.6 | 32.7 | 31.7 | 30.1 | 30.2 | 31.1 | 31.1 |
| Motor vehicle-related injuries | --- | --- | --- | --- | 19.5 | 16.9 | 16.5 | 15.5 | 15.1 | 14.7 | 15.0 |
| Suicide | --- | --- | --- | --- | 7.8 | 7.4 | 7.0 | 6.4 | 6.3 | 6.3 | 6.1 |
| Homicide | --- | --- | --- | --- | 16.2 | 13.3 | 11.1 | 9.9 | 8.8 | 8.8 | 8.4 |

See footnotes at end of table.

Table 30 (page 4 of 4). Age-adjusted death rates for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and cause of death</i> | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | <i>Comparability modified 1998²</i> | 1999 ³ |
|-------------------------------------------------------|----------------------------------------|-------------------|------|------|-------|-------|-------|-------|-------|------------------------------------------------|-------------------|
| White, non-Hispanic ⁶ | Deaths per 100,000 standard population | | | | | | | | | | |
| All causes | --- | --- | --- | --- | 914.5 | 890.8 | 882.1 | 871.7 | 862.7 | --- | 869.4 |
| Natural causes | --- | --- | --- | --- | 859.6 | 838.1 | 829.3 | 818.9 | 809.6 | --- | 816.3 |
| Diseases of heart | --- | --- | --- | --- | 319.7 | 293.0 | 287.0 | 279.7 | 271.7 | 267.8 | 266.9 |
| Ischemic heart disease | --- | --- | --- | --- | 251.9 | 222.3 | 215.9 | 207.4 | 199.8 | 199.6 | 196.6 |
| Cerebrovascular diseases | --- | --- | --- | --- | 63.5 | 61.4 | 61.2 | 60.1 | 58.0 | 61.4 | 60.5 |
| Malignant neoplasms | --- | --- | --- | --- | 215.4 | 210.8 | 208.7 | 205.7 | 203.0 | 204.4 | 203.8 |
| Trachea, bronchus, and lung | --- | --- | --- | --- | 60.3 | 60.2 | 60.0 | 59.9 | 59.6 | 58.6 | 58.0 |
| Colon, rectum, and anus | --- | --- | --- | --- | 24.6 | 22.5 | 21.9 | 21.4 | 21.1 | 21.1 | 21.0 |
| Prostate ⁴ | --- | --- | --- | --- | 36.1 | 34.5 | 33.2 | 31.5 | 29.7 | 30.1 | 28.8 |
| Breast ⁵ | --- | --- | --- | --- | 33.9 | 30.9 | 29.9 | 28.5 | 27.9 | 28.1 | 27.0 |
| Chronic lower respiratory diseases | --- | --- | --- | --- | 39.2 | 42.5 | 43.3 | 44.1 | 44.8 | 46.9 | 48.9 |
| Influenza and pneumonia | --- | --- | --- | --- | 36.5 | 33.3 | 32.9 | 33.5 | 34.7 | 24.2 | 23.7 |
| Chronic liver disease and cirrhosis | --- | --- | --- | --- | 9.9 | 9.0 | 8.9 | 8.9 | 8.8 | 9.1 | 9.1 |
| Diabetes mellitus | --- | --- | --- | --- | 18.3 | 20.2 | 20.9 | 20.6 | 21.1 | 21.3 | 21.9 |
| Human immunodeficiency virus (HIV) disease | --- | --- | --- | --- | 7.4 | 9.8 | 6.3 | 2.8 | 2.1 | 2.4 | 2.4 |
| External causes | --- | --- | --- | --- | 54.9 | 52.7 | 52.8 | 52.9 | 53.2 | --- | 53.0 |
| Unintentional injuries | --- | --- | --- | --- | 35.0 | 33.6 | 34.0 | 34.2 | 34.6 | 35.7 | 35.5 |
| Motor vehicle-related injuries | --- | --- | --- | --- | 18.2 | 16.2 | 16.2 | 16.1 | 16.0 | 15.6 | 15.4 |
| Suicide | --- | --- | --- | --- | 13.8 | 13.1 | 12.9 | 12.8 | 12.8 | 12.8 | 12.1 |
| Homicide | --- | --- | --- | --- | 4.0 | 3.6 | 3.4 | 3.3 | 3.1 | 3.1 | 2.9 |

--- Data not available.

¹Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

²Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

³Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

⁴Rate for male population only.

⁵Rate for female population only.

⁶Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. Rates for 1980–98 for Ischemic heart disease (410–414, 429.2), Cerebrovascular diseases (430–434, 436–438), and Unintentional injuries (E800–E869, E880–E929) are based on ICD–9 codes that are most nearly comparable with ICD–10 codes for these causes. Rates for these three causes differ from previous editions of *Health, United States*. For data years shown, code numbers for cause of death are based on the current revision of the *International Classification of Diseases* (ICD). See Appendix II, tables IV and V. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Grove, RD, Hetzel, AM. *Vital statistics rates in the United States, 1940–1960*. Washington: U.S. Government Printing Office. 1968; *Vital statistics of the United States, vol II, mortality, part A*, for data years 1960–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 32 (page 1 of 4). Leading causes of death and numbers of deaths, according to sex, race, and Hispanic origin: United States, 1980 and 1999

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and rank order | 1980 | | 1999 ¹ | |
|--------------------------------------------------|--------------------------------------------------------|-----------|---------------------------------------------|-----------|
| | Cause of death | Deaths | Cause of death | Deaths |
| All persons | | | | |
| ... | All causes | 1,989,841 | All causes | 2,391,399 |
| 1. | Diseases of heart | 761,085 | Diseases of heart | 725,192 |
| 2. | Malignant neoplasms | 416,509 | Malignant neoplasms | 549,838 |
| 3. | Cerebrovascular diseases | 170,225 | Cerebrovascular diseases | 167,366 |
| 4. | Unintentional injuries | 105,718 | Chronic lower respiratory diseases | 124,181 |
| 5. | Chronic obstructive pulmonary diseases | 56,050 | Unintentional injuries | 97,860 |
| 6. | Pneumonia and influenza | 54,619 | Diabetes mellitus | 68,399 |
| 7. | Diabetes mellitus | 34,851 | Influenza and pneumonia | 63,730 |
| 8. | Chronic liver disease and cirrhosis | 30,583 | Alzheimer's disease | 44,536 |
| 9. | Atherosclerosis | 29,449 | Nephritis, nephrotic syndrome and nephrosis | 35,525 |
| 10. | Suicide | 26,869 | Septicemia | 30,680 |
| Male | | | | |
| ... | All causes | 1,075,078 | All causes | 1,175,460 |
| 1. | Diseases of heart | 405,661 | Diseases of heart | 351,617 |
| 2. | Malignant neoplasms | 225,948 | Malignant neoplasms | 285,832 |
| 3. | Unintentional injuries | 74,180 | Cerebrovascular diseases | 64,485 |
| 4. | Cerebrovascular diseases | 69,973 | Unintentional injuries | 63,535 |
| 5. | Chronic obstructive pulmonary diseases | 38,625 | Chronic lower respiratory diseases | 62,415 |
| 6. | Pneumonia and influenza | 27,574 | Diabetes mellitus | 31,150 |
| 7. | Suicide | 20,505 | Influenza and pneumonia | 27,718 |
| 8. | Chronic liver disease and cirrhosis | 19,768 | Suicide | 23,458 |
| 9. | Homicide | 18,779 | Chronic liver disease and cirrhosis | 17,115 |
| 10. | Diabetes mellitus | 14,325 | Nephritis, nephrotic syndrome and nephrosis | 17,016 |
| Female | | | | |
| ... | All causes | 914,763 | All causes | 1,215,939 |
| 1. | Diseases of heart | 355,424 | Diseases of heart | 373,575 |
| 2. | Malignant neoplasms | 190,561 | Malignant neoplasms | 264,006 |
| 3. | Cerebrovascular diseases | 100,252 | Cerebrovascular diseases | 102,881 |
| 4. | Unintentional injuries | 31,538 | Chronic lower respiratory diseases | 61,766 |
| 5. | Pneumonia and influenza | 27,045 | Diabetes mellitus | 37,249 |
| 6. | Diabetes mellitus | 20,526 | Influenza and pneumonia | 36,012 |
| 7. | Atherosclerosis | 17,848 | Unintentional injuries | 34,325 |
| 8. | Chronic obstructive pulmonary diseases | 17,425 | Alzheimer's disease | 31,145 |
| 9. | Chronic liver disease and cirrhosis | 10,815 | Nephritis, nephrotic syndrome and nephrosis | 18,509 |
| 10. | Certain conditions originating in the perinatal period | 9,815 | Septicemia | 17,285 |
| White | | | | |
| ... | All causes | 1,738,607 | All causes | 2,061,348 |
| 1. | Diseases of heart | 683,347 | Diseases of heart | 635,118 |
| 2. | Malignant neoplasms | 368,162 | Malignant neoplasms | 477,238 |
| 3. | Cerebrovascular diseases | 148,734 | Cerebrovascular diseases | 144,827 |
| 4. | Unintentional injuries | 90,122 | Chronic lower respiratory diseases | 114,735 |
| 5. | Chronic obstructive pulmonary diseases | 52,375 | Unintentional injuries | 82,245 |
| 6. | Pneumonia and influenza | 48,369 | Influenza and pneumonia | 56,694 |
| 7. | Diabetes mellitus | 28,868 | Diabetes mellitus | 54,599 |
| 8. | Atherosclerosis | 27,069 | Alzheimer's disease | 41,877 |
| 9. | Chronic liver disease and cirrhosis | 25,240 | Nephritis, nephrotic syndrome and nephrosis | 28,041 |
| 10. | Suicide | 24,829 | Suicide | 26,300 |
| Black | | | | |
| ... | All causes | 233,135 | All causes | 285,064 |
| 1. | Diseases of heart | 72,956 | Diseases of heart | 78,574 |
| 2. | Malignant neoplasms | 45,037 | Malignant neoplasms | 61,951 |
| 3. | Cerebrovascular diseases | 20,135 | Cerebrovascular diseases | 18,884 |
| 4. | Unintentional injuries | 13,480 | Unintentional injuries | 12,728 |
| 5. | Homicide | 10,172 | Diabetes mellitus | 11,927 |
| 6. | Certain conditions originating in the perinatal period | 6,961 | Chronic lower respiratory diseases | 7,915 |
| 7. | Pneumonia and influenza | 5,648 | Human immunodeficiency virus (HIV) disease | 7,893 |
| 8. | Diabetes mellitus | 5,544 | Homicide | 7,648 |
| 9. | Chronic liver disease and cirrhosis | 4,790 | Nephritis, nephrotic syndrome and nephrosis | 6,711 |
| 10. | Nephritis, nephrotic syndrome, and nephrosis | 3,416 | Influenza and pneumonia | 5,876 |

See footnotes at end of table.

Table 32 (page 2 of 4). Leading causes of death and numbers of deaths, according to sex, race, and Hispanic origin: United States, 1980 and 1999

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and rank order | 1980 | | 1999 ¹ | |
|--------------------------------------------------|--------------------------------------------------------|---------|--------------------------------------------------------|-----------|
| | Cause of death | Deaths | Cause of death | Deaths |
| American Indian or Alaska Native | | | | |
| ... | All causes | 6,923 | All causes | 11,312 |
| 1. | Diseases of heart | 1,494 | Diseases of heart | 2,404 |
| 2. | Unintentional injuries | 1,290 | Malignant neoplasms | 1,836 |
| 3. | Malignant neoplasms | 770 | Unintentional injuries | 1,327 |
| 4. | Chronic liver disease and cirrhosis | 410 | Diabetes mellitus | 725 |
| 5. | Cerebrovascular diseases | 322 | Cerebrovascular diseases | 546 |
| 6. | Pneumonia and influenza | 257 | Chronic liver disease and cirrhosis | 513 |
| 7. | Homicide | 217 | Chronic lower respiratory diseases | 406 |
| 8. | Diabetes mellitus | 210 | Influenza and pneumonia | 315 |
| 9. | Certain conditions originating in the perinatal period | 199 | Suicide | 291 |
| 10. | Suicide | 181 | Homicide | 253 |
| Asian or Pacific Islander | | | | |
| ... | All causes | 11,071 | All causes | 33,675 |
| 1. | Diseases of heart | 3,265 | Diseases of heart | 9,096 |
| 2. | Malignant neoplasms | 2,522 | Malignant neoplasms | 8,813 |
| 3. | Cerebrovascular diseases | 1,028 | Cerebrovascular diseases | 3,109 |
| 4. | Unintentional injuries | 810 | Unintentional injuries | 1,560 |
| 5. | Pneumonia and influenza | 342 | Diabetes mellitus | 1,148 |
| 6. | Suicide | 249 | Chronic lower respiratory diseases | 1,125 |
| 7. | Certain conditions originating in the perinatal period | 246 | Influenza and pneumonia | 845 |
| 8. | Diabetes mellitus | 227 | Suicide | 658 |
| 9. | Homicide | 211 | Nephritis, nephrotic syndrome and nephrosis | 579 |
| 10. | Chronic obstructive pulmonary diseases | 207 | Septicemia | 398 |
| Hispanic | | | | |
| ... | --- | --- | All causes | 103,740 |
| 1. | --- | --- | Diseases of heart | 25,866 |
| 2. | --- | --- | Malignant neoplasms | 20,233 |
| 3. | --- | --- | Unintentional injuries | 8,650 |
| 4. | --- | --- | Cerebrovascular diseases | 5,907 |
| 5. | --- | --- | Diabetes mellitus | 5,182 |
| 6. | --- | --- | Chronic liver disease and cirrhosis | 2,972 |
| 7. | --- | --- | Homicide | 2,864 |
| 8. | --- | --- | Chronic lower respiratory diseases | 2,859 |
| 9. | --- | --- | Influenza and pneumonia | 2,246 |
| 10. | --- | --- | Certain conditions originating in the perinatal period | 2,153 |
| White male | | | | |
| ... | All causes | 933,878 | All causes | 1,005,335 |
| 1. | Diseases of heart | 364,679 | Diseases of heart | 307,585 |
| 2. | Malignant neoplasms | 198,188 | Malignant neoplasms | 247,396 |
| 3. | Unintentional injuries | 62,963 | Chronic lower respiratory diseases | 57,000 |
| 4. | Cerebrovascular diseases | 60,095 | Cerebrovascular diseases | 54,867 |
| 5. | Chronic obstructive pulmonary diseases | 35,977 | Unintentional injuries | 52,898 |
| 6. | Pneumonia and influenza | 23,810 | Diabetes mellitus | 25,545 |
| 7. | Suicide | 18,901 | Influenza and pneumonia | 24,281 |
| 8. | Chronic liver disease and cirrhosis | 16,407 | Suicide | 21,107 |
| 9. | Diabetes mellitus | 12,125 | Chronic liver disease and cirrhosis | 14,790 |
| 10. | Atherosclerosis | 10,543 | Nephritis, nephrotic syndrome and nephrosis | 13,632 |
| Black male | | | | |
| ... | All causes | 130,138 | All causes | 145,703 |
| 1. | Diseases of heart | 37,877 | Diseases of heart | 37,576 |
| 2. | Malignant neoplasms | 25,861 | Malignant neoplasms | 32,850 |
| 3. | Unintentional injuries | 9,701 | Unintentional injuries | 8,773 |
| 4. | Cerebrovascular diseases | 9,194 | Cerebrovascular diseases | 7,894 |
| 5. | Homicide | 8,274 | Homicide | 6,214 |
| 6. | Certain conditions originating in the perinatal period | 3,869 | Human immunodeficiency virus (HIV) disease | 5,493 |
| 7. | Pneumonia and influenza | 3,386 | Diabetes mellitus | 4,759 |
| 8. | Chronic liver disease and cirrhosis | 3,020 | Chronic lower respiratory diseases | 4,500 |
| 9. | Chronic obstructive pulmonary diseases | 2,429 | Nephritis, nephrotic syndrome and nephrosis | 3,008 |
| 10. | Diabetes mellitus | 2,010 | Certain conditions originating in the perinatal period | 2,907 |

See footnotes at end of table.

Table 32 (page 3 of 4). Leading causes of death and numbers of deaths, according to sex, race, and Hispanic origin: United States, 1980 and 1999

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and rank order | 1980 | | 1999 ¹ | |
|--------------------------------------------------|--------------------------------------------------------|---------|---------------------------------------------|-----------|
| | Cause of death | Deaths | Cause of death | Deaths |
| American Indian or Alaska Native male | | | | |
| ... | All causes | 4,193 | All causes | 6,092 |
| 1. | Unintentional injuries | 946 | Diseases of heart | 1,302 |
| 2. | Diseases of heart | 917 | Malignant neoplasms | 949 |
| 3. | Malignant neoplasms | 408 | Unintentional injuries | 890 |
| 4. | Chronic liver disease and cirrhosis | 239 | Diabetes mellitus | 323 |
| 5. | Cerebrovascular diseases | 163 | Chronic liver disease and cirrhosis | 299 |
| 6. | Homicide | 162 | Cerebrovascular diseases | 236 |
| 7. | Pneumonia and influenza | 148 | Suicide | 233 |
| 8. | Suicide | 147 | Chronic lower respiratory diseases | 197 |
| 9. | Certain conditions originating in the perinatal period | 107 | Homicide | 179 |
| 10. | Diabetes mellitus | 86 | Influenza and pneumonia | 147 |
| Asian or Pacific Islander male | | | | |
| ... | All causes | 6,809 | All causes | 18,330 |
| 1. | Diseases of heart | 2,174 | Diseases of heart | 5,154 |
| 2. | Malignant neoplasms | 1,485 | Malignant neoplasms | 4,637 |
| 3. | Unintentional injuries | 556 | Cerebrovascular diseases | 1,488 |
| 4. | Cerebrovascular diseases | 521 | Unintentional injuries | 974 |
| 5. | Pneumonia and influenza | 227 | Chronic lower respiratory diseases | 718 |
| 6. | Suicide | 159 | Diabetes mellitus | 523 |
| 7. | Chronic obstructive pulmonary diseases | 158 | Suicide | 467 |
| 8. | Homicide | 151 | Influenza and pneumonia | 465 |
| 9. | Certain conditions originating in the perinatal period | 128 | Nephritis, nephrotic syndrome and nephrosis | 297 |
| 10. | Diabetes mellitus | 103 | Homicide | 230 |
| Hispanic male | | | | |
| ... | --- | --- | All causes | 57,991 |
| 1. | --- | --- | Diseases of heart | 13,554 |
| 2. | --- | --- | Malignant neoplasms | 10,668 |
| 3. | --- | --- | Unintentional injuries | 6,578 |
| 4. | --- | --- | Cerebrovascular diseases | 2,809 |
| 5. | --- | --- | Homicide | 2,399 |
| 6. | --- | --- | Diabetes mellitus | 2,335 |
| 7. | --- | --- | Chronic liver disease and cirrhosis | 2,143 |
| 8. | --- | --- | Chronic lower respiratory diseases | 1,547 |
| 9. | --- | --- | Human immunodeficiency virus (HIV) disease | 1,525 |
| 10. | --- | --- | Suicide | 1,430 |
| White female | | | | |
| ... | All causes | 804,729 | All causes | 1,056,013 |
| 1. | Diseases of heart | 318,668 | Diseases of heart | 327,533 |
| 2. | Malignant neoplasms | 169,974 | Malignant neoplasms | 229,842 |
| 3. | Cerebrovascular diseases | 88,639 | Cerebrovascular diseases | 89,960 |
| 4. | Unintentional injuries | 27,159 | Chronic lower respiratory diseases | 57,735 |
| 5. | Pneumonia and influenza | 24,559 | Influenza and pneumonia | 32,413 |
| 6. | Diabetes mellitus | 16,743 | Unintentional injuries | 29,347 |
| 7. | Atherosclerosis | 16,526 | Alzheimer's disease | 29,292 |
| 8. | Chronic obstructive pulmonary diseases | 16,398 | Diabetes mellitus | 29,054 |
| 9. | Chronic liver disease and cirrhosis | 8,833 | Nephritis, nephrotic syndrome and nephrosis | 14,409 |
| 10. | Certain conditions originating in the perinatal period | 6,512 | Septicemia | 13,798 |
| Black female | | | | |
| ... | All causes | 102,997 | All causes | 139,361 |
| 1. | Diseases of heart | 35,079 | Diseases of heart | 40,998 |
| 2. | Malignant neoplasms | 19,176 | Malignant neoplasms | 29,101 |
| 3. | Cerebrovascular diseases | 10,941 | Cerebrovascular diseases | 10,990 |
| 4. | Unintentional injuries | 3,779 | Diabetes mellitus | 7,168 |
| 5. | Diabetes mellitus | 3,534 | Unintentional injuries | 3,955 |
| 6. | Certain conditions originating in the perinatal period | 3,092 | Nephritis, nephrotic syndrome and nephrosis | 3,703 |
| 7. | Pneumonia and influenza | 2,262 | Chronic lower respiratory diseases | 3,415 |
| 8. | Homicide | 1,898 | Septicemia | 3,203 |
| 9. | Chronic liver disease and cirrhosis | 1,770 | Influenza and pneumonia | 3,051 |
| 10. | Nephritis, nephrotic syndrome, and nephrosis | 1,722 | Human immunodeficiency virus (HIV) disease | 2,400 |

See footnotes at end of table.

Table 32 (page 4 of 4). Leading causes of death and numbers of deaths, according to sex, race, and Hispanic origin: United States, 1980 and 1999

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and rank order | 1980 | | 1999 ¹ | |
|--------------------------------------------------|--------------------------------------------------------|--------|-----------------------------------------------------------------|--------|
| | Cause of death | Deaths | Cause of death | Deaths |
| American Indian or Alaska Native female | | | | |
| ... | All causes | 2,730 | All causes | 5,220 |
| 1. | Diseases of heart | 577 | Diseases of heart | 1,102 |
| 2. | Malignant neoplasms | 362 | Malignant neoplasms | 887 |
| 3. | Unintentional injuries | 344 | Unintentional injuries | 437 |
| 4. | Chronic liver disease and cirrhosis | 171 | Diabetes mellitus | 402 |
| 5. | Cerebrovascular diseases | 159 | Cerebrovascular diseases | 310 |
| 6. | Diabetes mellitus | 124 | Chronic liver disease and cirrhosis | 214 |
| 7. | Pneumonia and influenza | 109 | Chronic lower respiratory diseases | 209 |
| 8. | Certain conditions originating in the perinatal period | 92 | Influenza and pneumonia | 168 |
| 9. | Nephritis, nephrotic syndrome, and nephrosis | 56 | Nephritis, nephrotic syndrome and nephrosis | 115 |
| 10. | Homicide | 55 | Septicemia | 88 |
| Asian or Pacific Islander female | | | | |
| ... | All causes | 4,262 | All causes | 15,345 |
| 1. | Diseases of heart | 1,091 | Malignant neoplasms | 4,176 |
| 2. | Malignant neoplasms | 1,037 | Diseases of heart | 3,942 |
| 3. | Cerebrovascular diseases | 507 | Cerebrovascular diseases | 1,621 |
| 4. | Unintentional injuries | 254 | Diabetes mellitus | 625 |
| 5. | Diabetes mellitus | 124 | Unintentional injuries | 586 |
| 6. | Certain conditions originating in the perinatal period | 118 | Chronic lower respiratory diseases | 407 |
| 7. | Pneumonia and influenza | 115 | Influenza and pneumonia | 380 |
| 8. | Congenital anomalies | 104 | Nephritis, nephrotic syndrome and nephrosis | 282 |
| 9. | Suicide | 90 | Essential (primary) hypertension and hypertensive renal disease | 197 |
| 10. | Homicide | 60 | Septicemia | 196 |
| Hispanic female | | | | |
| ... | --- | --- | All causes | 45,749 |
| 1. | --- | --- | Diseases of heart | 12,312 |
| 2. | --- | --- | Malignant neoplasms | 9,565 |
| 3. | --- | --- | Cerebrovascular diseases | 3,098 |
| 4. | --- | --- | Diabetes mellitus | 2,847 |
| 5. | --- | --- | Unintentional injuries | 2,072 |
| 6. | --- | --- | Chronic lower respiratory diseases | 1,312 |
| 7. | --- | --- | Influenza and pneumonia | 1,154 |
| 8. | --- | --- | Certain conditions originating in the perinatal period | 961 |
| 9. | --- | --- | Chronic liver disease and cirrhosis | 829 |
| 10. | --- | --- | Nephritis, nephrotic syndrome and nephrosis | 770 |

... Category not applicable.

--- Data not available.

¹The rank order of leading causes of death changed somewhat between 1998 and 1999, reflecting in part changes in the coding rules for selecting underlying cause of death between ICD-9 and ICD-10. For example, for all persons, Influenza and pneumonia dropped from 6th to 7th, Alzheimer's disease rose from 12th to 8th, and Septicemia rose from 11th to 10th.

NOTES: Cause of death code numbers in 1980 are based on the *International Classification of Diseases, 9th Revision (ICD-9)*. Starting in 1999 cause of death code numbers are based on ICD-10. See Appendix II, tables IV and V.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. *Vital statistics of the United States, vol II, mortality, part A*, 1980. Washington: Public Health Service. 1985; Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 33 (page 1 of 2). Leading causes of death and numbers of deaths, according to age: United States, 1980 and 1999

[Data are based on the National Vital Statistics System]

| Age and rank order | 1980 | | 1999 ¹ | |
|---------------------|-----------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|--------|
| | Cause of death | Deaths | Cause of death | Deaths |
| Under 1 year | | | | |
| ... | All causes | 45,526 | All causes | 27,937 |
| 1. | Congenital anomalies | 9,220 | Congenital malformations, deformations and chromosomal abnormalities | 5,473 |
| 2. | Sudden infant death syndrome | 5,510 | Disorders related to short gestation and low birthweight, not elsewhere classified | 4,392 |
| 3. | Respiratory distress syndrome | 4,989 | Sudden infant death syndrome | 2,648 |
| 4. | Disorders relating to short gestation and unspecified low birthweight | 3,648 | Newborn affected by maternal complications of pregnancy | 1,399 |
| 5. | Newborn affected by maternal complications of pregnancy | 1,572 | Respiratory distress of newborn | 1,110 |
| 6. | Intrauterine hypoxia and birth asphyxia | 1,497 | Newborn affected by complications of placenta, cord and membranes | 1,025 |
| 7. | Unintentional injuries | 1,166 | Unintentional injuries | 845 |
| 8. | Birth trauma | 1,058 | Bacterial sepsis of newborn | 691 |
| 9. | Pneumonia and influenza | 1,012 | Diseases of circulatory system | 667 |
| 10. | Newborn affected by complications of placenta, cord, and membranes | 985 | Atelectasis | 647 |
| 1–4 years | | | | |
| ... | All causes | 8,187 | All causes | 5,249 |
| 1. | Unintentional injuries | 3,313 | Unintentional injuries | 1,898 |
| 2. | Congenital anomalies | 1,026 | Congenital malformations, deformations and chromosomal abnormalities | 549 |
| 3. | Malignant neoplasms | 573 | Malignant neoplasms | 418 |
| 4. | Diseases of heart | 338 | Homicide | 376 |
| 5. | Homicide | 319 | Diseases of heart | 183 |
| 6. | Pneumonia and influenza | 267 | Influenza and pneumonia | 130 |
| 7. | Meningitis | 223 | Certain conditions originating in the perinatal period | 92 |
| 8. | Meningococcal infection | 110 | Septicemia | 87 |
| 9. | Certain conditions originating in the perinatal period | 84 | In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior | 63 |
| 10. | Septicemia | 71 | Chronic lower respiratory diseases | 54 |
| 5–14 years | | | | |
| ... | All causes | 10,689 | All causes | 7,595 |
| 1. | Unintentional injuries | 5,224 | Unintentional injuries | 3,091 |
| 2. | Malignant neoplasms | 1,497 | Malignant neoplasms | 1,012 |
| 3. | Congenital anomalies | 561 | Homicide | 432 |
| 4. | Homicide | 415 | Congenital malformations, deformations and chromosomal abnormalities | 428 |
| 5. | Diseases of heart | 330 | Diseases of heart | 277 |
| 6. | Pneumonia and influenza | 194 | Suicide | 244 |
| 7. | Suicide | 142 | Chronic lower respiratory diseases | 139 |
| 8. | Benign neoplasms | 104 | In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior | 101 |
| 9. | Cerebrovascular diseases | 95 | Influenza and pneumonia | 93 |
| 10. | Chronic obstructive pulmonary diseases | 85 | Septicemia | 77 |
| 15–24 years | | | | |
| ... | All causes | 49,027 | All causes | 30,656 |
| 1. | Unintentional injuries | 26,206 | Unintentional injuries | 13,656 |
| 2. | Homicide | 6,537 | Homicide | 4,998 |
| 3. | Suicide | 5,239 | Suicide | 3,901 |
| 4. | Malignant neoplasms | 2,683 | Malignant neoplasms | 1,724 |
| 5. | Diseases of heart | 1,223 | Diseases of heart | 1,069 |
| 6. | Congenital anomalies | 600 | Congenital malformations, deformations and chromosomal abnormalities | 434 |
| 7. | Cerebrovascular diseases | 418 | Chronic lower respiratory diseases | 209 |
| 8. | Pneumonia and influenza | 348 | Human immunodeficiency virus (HIV) disease | 198 |
| 9. | Chronic obstructive pulmonary diseases | 141 | Cerebrovascular diseases | 182 |
| 10. | Anemias | 133 | Influenza and pneumonia | 179 |

See footnotes at end of table.

Table 33 (page 2 of 2). Leading causes of death and numbers of deaths, according to age: United States, 1980 and 1999

[Data are based on the National Vital Statistics System]

| Age and rank order | 1980 | | 1999 ¹ | |
|--------------------|----------------------------------------------|-----------|---------------------------------------------|-----------|
| | Cause of death | Deaths | Cause of death | Deaths |
| 25–44 years | | | | |
| ... | All causes | 108,658 | All causes | 130,322 |
| 1. | Unintentional injuries | 26,722 | Unintentional injuries | 27,121 |
| 2. | Malignant neoplasms | 17,551 | Malignant neoplasms | 20,737 |
| 3. | Diseases of heart | 14,513 | Diseases of heart | 16,666 |
| 4. | Homicide | 10,983 | Suicide | 11,572 |
| 5. | Suicide | 9,855 | Human immunodeficiency virus (HIV) disease | 8,961 |
| 6. | Chronic liver disease and cirrhosis | 4,782 | Homicide | 7,437 |
| 7. | Cerebrovascular diseases | 3,154 | Chronic liver disease and cirrhosis | 3,709 |
| 8. | Diabetes mellitus | 1,472 | Cerebrovascular diseases | 3,154 |
| 9. | Pneumonia and influenza | 1,467 | Diabetes mellitus | 2,524 |
| 10. | Congenital anomalies | 817 | Influenza and pneumonia | 1,402 |
| 45–64 years | | | | |
| ... | All causes | 425,338 | All causes | 391,953 |
| 1. | Diseases of heart | 148,322 | Malignant neoplasms | 135,748 |
| 2. | Malignant neoplasms | 135,675 | Diseases of heart | 99,161 |
| 3. | Cerebrovascular diseases | 19,909 | Unintentional injuries | 18,924 |
| 4. | Unintentional injuries | 18,140 | Cerebrovascular diseases | 15,215 |
| 5. | Chronic liver disease and cirrhosis | 16,089 | Chronic lower respiratory diseases | 14,407 |
| 6. | Chronic obstructive pulmonary diseases | 11,514 | Diabetes mellitus | 13,832 |
| 7. | Diabetes mellitus | 7,977 | Chronic liver disease and cirrhosis | 12,005 |
| 8. | Suicide | 7,079 | Suicide | 7,977 |
| 9. | Pneumonia and influenza | 5,804 | Human immunodeficiency virus (HIV) disease | 5,056 |
| 10. | Homicide | 4,019 | Septicemia | 4,399 |
| 65 years and over | | | | |
| ... | All causes | 1,341,848 | All causes | 1,797,331 |
| 1. | Diseases of heart | 595,406 | Diseases of heart | 607,265 |
| 2. | Malignant neoplasms | 258,389 | Malignant neoplasms | 390,122 |
| 3. | Cerebrovascular diseases | 146,417 | Cerebrovascular diseases | 148,599 |
| 4. | Pneumonia and influenza | 45,512 | Chronic lower respiratory diseases | 108,112 |
| 5. | Chronic obstructive pulmonary diseases | 43,587 | Influenza and pneumonia | 57,282 |
| 6. | Atherosclerosis | 28,081 | Diabetes mellitus | 51,843 |
| 7. | Diabetes mellitus | 25,216 | Alzheimer's disease | 44,020 |
| 8. | Unintentional injuries | 24,844 | Unintentional injuries | 32,219 |
| 9. | Nephritis, nephrotic syndrome, and nephrosis | 12,968 | Nephritis, nephrotic syndrome and nephrosis | 29,938 |
| 10. | Chronic liver disease and cirrhosis | 9,519 | Septicemia | 24,626 |

... Category not applicable.

¹The rank order of leading causes of death changed somewhat between 1998 and 1999, reflecting in part changes in the coding rules for selecting underlying cause of death between ICD–9 and ICD–10. For example, for persons 65 years and over, Alzheimer's disease rose from 9th to 7th.

NOTES: Cause of death code numbers in 1980 are based on the *International Classification of Diseases, 9th Revision* (ICD–9). Starting in 1999 cause of death code numbers are based on ICD–10. See Appendix II, tables IV and V.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. *Vital statistics of the United States, vol II, mortality, part A*, 1980. Washington: Public Health Service. 1985; Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 36 (page 1 of 4). Death rates for all causes, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1985</i> | <i>1990</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>1999</i> |
|------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Deaths per 100,000 resident population | | | | | | | | | | |
| All persons | | | | | | | | | | |
| All ages, age adjusted | 1,446.0 | 1,339.2 | 1,222.6 | 1,039.1 | 988.1 | 938.7 | 902.4 | 887.3 | 875.8 | 881.9 |
| All ages, crude | 963.8 | 954.7 | 945.3 | 878.3 | 876.9 | 863.8 | 872.5 | 864.7 | 864.7 | 877.0 |
| Under 1 year | 3,299.2 | 2,696.4 | 2,142.4 | 1,288.3 | 1,088.1 | 971.9 | 755.7 | 738.7 | 751.3 | 731.4 |
| 1–4 years | 139.4 | 109.1 | 84.5 | 63.9 | 51.8 | 46.8 | 38.3 | 35.8 | 34.6 | 34.7 |
| 5–14 years | 60.1 | 46.6 | 41.3 | 30.6 | 26.5 | 24.0 | 21.7 | 20.8 | 19.9 | 19.2 |
| 15–24 years | 128.1 | 106.3 | 127.7 | 115.4 | 94.9 | 99.2 | 89.6 | 86.2 | 82.3 | 81.2 |
| 25–34 years | 178.7 | 146.4 | 157.4 | 135.5 | 124.4 | 139.2 | 126.7 | 115.0 | 109.6 | 108.3 |
| 35–44 years | 358.7 | 299.4 | 314.5 | 227.9 | 207.7 | 223.2 | 221.3 | 203.2 | 199.6 | 199.2 |
| 45–54 years | 853.9 | 756.0 | 730.0 | 584.0 | 519.3 | 473.4 | 445.9 | 430.8 | 423.5 | 427.3 |
| 55–64 years | 1,901.0 | 1,735.1 | 1,658.8 | 1,346.3 | 1,294.2 | 1,196.9 | 1,094.1 | 1,063.6 | 1,030.7 | 1,021.8 |
| 65–74 years | 4,104.3 | 3,822.1 | 3,582.7 | 2,994.9 | 2,862.8 | 2,648.6 | 2,538.4 | 2,509.8 | 2,495.1 | 2,484.3 |
| 75–84 years | 9,331.1 | 8,745.2 | 8,004.4 | 6,692.6 | 6,398.7 | 6,007.2 | 5,803.1 | 5,728.2 | 5,703.2 | 5,751.3 |
| 85 years and over | 20,196.9 | 19,857.5 | 16,344.9 | 15,980.3 | 15,712.4 | 15,327.4 | 15,327.2 | 15,345.2 | 15,111.7 | 15,476.1 |
| Male | | | | | | | | | | |
| All ages, age adjusted | 1,674.2 | 1,609.0 | 1,542.1 | 1,348.1 | 1,278.1 | 1,202.8 | 1,117.5 | 1,090.5 | 1,064.6 | 1,061.8 |
| All ages, crude | 1,106.1 | 1,104.5 | 1,090.3 | 976.9 | 948.6 | 918.4 | 896.4 | 880.8 | 876.4 | 882.0 |
| Under 1 year | 3,728.0 | 3,059.3 | 2,410.0 | 1,428.5 | 1,219.9 | 1,082.8 | 828.0 | 812.8 | 818.2 | 801.5 |
| 1–4 years | 151.7 | 119.5 | 93.2 | 72.6 | 58.5 | 52.4 | 42.2 | 39.7 | 37.6 | 38.5 |
| 5–14 years | 70.9 | 55.7 | 50.5 | 36.7 | 31.8 | 28.5 | 25.4 | 24.0 | 23.4 | 22.2 |
| 15–24 years | 167.9 | 152.1 | 188.5 | 172.3 | 138.9 | 147.4 | 130.6 | 124.0 | 119.3 | 115.9 |
| 25–34 years | 216.5 | 187.9 | 215.3 | 196.1 | 179.6 | 204.3 | 178.6 | 160.1 | 151.7 | 150.2 |
| 35–44 years | 428.8 | 372.8 | 402.6 | 299.2 | 278.9 | 310.4 | 298.1 | 265.7 | 258.5 | 256.7 |
| 45–54 years | 1,067.1 | 992.2 | 958.5 | 767.3 | 671.6 | 610.3 | 573.8 | 550.5 | 542.8 | 546.7 |
| 55–64 years | 2,395.3 | 2,309.5 | 2,282.7 | 1,815.1 | 1,711.4 | 1,553.4 | 1,388.7 | 1,336.6 | 1,296.9 | 1,280.0 |
| 65–74 years | 4,931.4 | 4,914.4 | 4,873.8 | 4,105.2 | 3,856.3 | 3,491.5 | 3,233.4 | 3,191.2 | 3,143.7 | 3,109.3 |
| 75–84 years | 10,426.0 | 10,178.4 | 10,010.2 | 8,816.7 | 8,501.6 | 7,888.6 | 7,249.8 | 7,116.1 | 7,019.2 | 6,999.8 |
| 85 years and over | 21,636.0 | 21,186.3 | 17,821.5 | 18,801.1 | 18,614.1 | 18,056.6 | 17,547.7 | 17,461.9 | 16,763.3 | 16,931.3 |
| Female | | | | | | | | | | |
| All ages, age adjusted | 1,236.0 | 1,105.3 | 971.4 | 817.9 | 784.5 | 750.9 | 742.8 | 736.3 | 732.7 | 743.6 |
| All ages, crude | 823.5 | 809.2 | 807.8 | 785.3 | 809.1 | 812.0 | 849.7 | 849.2 | 853.5 | 872.2 |
| Under 1 year | 2,854.6 | 2,321.3 | 1,863.7 | 1,141.7 | 950.6 | 855.7 | 680.0 | 661.1 | 681.3 | 658.1 |
| 1–4 years | 126.7 | 98.4 | 75.4 | 54.7 | 44.8 | 41.0 | 34.3 | 31.8 | 31.4 | 30.8 |
| 5–14 years | 48.9 | 37.3 | 31.8 | 24.2 | 21.0 | 19.3 | 17.8 | 17.4 | 16.2 | 16.1 |
| 15–24 years | 89.1 | 61.3 | 68.1 | 57.5 | 49.6 | 49.0 | 46.2 | 46.3 | 43.5 | 44.7 |
| 25–34 years | 142.7 | 106.6 | 101.6 | 75.9 | 69.4 | 74.2 | 74.7 | 69.9 | 68.1 | 66.9 |
| 35–44 years | 290.3 | 229.4 | 231.1 | 159.3 | 138.7 | 137.9 | 145.4 | 141.4 | 141.5 | 142.5 |
| 45–54 years | 641.5 | 526.7 | 517.2 | 412.9 | 375.2 | 342.7 | 323.3 | 316.1 | 309.6 | 313.1 |
| 55–64 years | 1,404.8 | 1,196.4 | 1,098.9 | 934.3 | 925.6 | 878.8 | 826.7 | 815.2 | 788.4 | 786.5 |
| 65–74 years | 3,333.2 | 2,871.8 | 2,579.7 | 2,144.7 | 2,096.9 | 1,991.2 | 1,979.0 | 1,959.0 | 1,967.7 | 1,972.9 |
| 75–84 years | 8,399.6 | 7,633.1 | 6,677.6 | 5,440.1 | 5,162.1 | 4,883.1 | 4,868.3 | 4,820.5 | 4,831.9 | 4,915.4 |
| 85 years and over | 19,194.7 | 19,008.4 | 15,518.0 | 14,746.9 | 14,553.9 | 14,274.3 | 14,444.7 | 14,492.3 | 14,427.4 | 14,861.2 |
| White male | | | | | | | | | | |
| All ages, age adjusted | 1,642.5 | 1,586.0 | 1,513.7 | 1,317.6 | 1,249.8 | 1,165.9 | 1,086.1 | 1,062.5 | 1,038.5 | 1,035.8 |
| All ages, crude | 1,089.5 | 1,098.5 | 1,086.7 | 983.3 | 963.6 | 930.9 | 918.1 | 906.3 | 904.4 | 911.2 |
| Under 1 year | 3,400.5 | 2,694.1 | 2,113.2 | 1,230.3 | 1,056.5 | 896.1 | 683.3 | 678.1 | 673.8 | 658.1 |
| 1–4 years | 135.5 | 104.9 | 83.6 | 66.1 | 52.8 | 45.9 | 37.1 | 35.1 | 32.5 | 33.9 |
| 5–14 years | 67.2 | 52.7 | 48.0 | 35.0 | 30.1 | 26.4 | 23.2 | 22.1 | 21.2 | 20.3 |
| 15–24 years | 152.4 | 143.7 | 170.8 | 167.0 | 134.2 | 131.3 | 113.9 | 109.0 | 107.6 | 104.9 |
| 25–34 years | 185.3 | 163.2 | 176.6 | 171.3 | 158.8 | 176.1 | 154.8 | 140.3 | 133.9 | 134.5 |
| 35–44 years | 380.9 | 332.6 | 343.5 | 257.4 | 243.1 | 268.2 | 259.6 | 235.3 | 232.7 | 231.5 |
| 45–54 years | 984.5 | 932.2 | 882.9 | 698.9 | 611.7 | 548.7 | 515.5 | 495.8 | 489.6 | 494.2 |
| 55–64 years | 2,304.4 | 2,225.2 | 2,202.6 | 1,728.5 | 1,625.8 | 1,467.2 | 1,305.2 | 1,252.4 | 1,215.5 | 1,200.2 |
| 65–74 years | 4,864.9 | 4,848.4 | 4,810.1 | 4,035.7 | 3,770.7 | 3,397.7 | 3,158.3 | 3,122.7 | 3,082.3 | 3,043.2 |
| 75–84 years | 10,526.3 | 10,299.6 | 10,098.8 | 8,829.8 | 8,486.1 | 7,844.9 | 7,205.5 | 7,086.0 | 6,988.5 | 6,965.1 |
| 85 years and over | 22,116.3 | 21,750.0 | 18,551.7 | 19,097.3 | 18,980.1 | 18,268.3 | 17,870.5 | 17,767.1 | 17,048.3 | 17,202.1 |

See footnotes at end of table.

Table 36 (page 2 of 4). Death rates for all causes, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1985</i> | <i>1990</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>1999</i> |
|--------------------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Deaths per 100,000 resident population | | | | | | | | | | |
| Black male | | | | | | | | | | |
| All ages, age adjusted | 1,909.1 | 1,811.1 | 1,873.9 | 1,697.8 | 1,634.5 | 1,644.5 | 1,513.9 | 1,446.7 | 1,410.6 | 1,412.5 |
| All ages, crude | 1,257.7 | 1,181.7 | 1,186.6 | 1,034.1 | 989.3 | 1,008.0 | 939.9 | 893.9 | 877.7 | 880.0 |
| Under 1 year | --- | 5,306.8 | 4,298.9 | 2,586.7 | 2,219.9 | 2,112.4 | 1,748.2 | 1,671.6 | 1,717.8 | 1,694.0 |
| 1–4 years ² | 1,412.6 | 208.5 | 150.5 | 110.5 | 90.1 | 85.8 | 71.4 | 67.2 | 69.2 | 66.0 |
| 5–14 years | 95.1 | 75.1 | 67.1 | 47.4 | 42.3 | 41.2 | 38.1 | 34.8 | 35.6 | 34.6 |
| 15–24 years | 289.7 | 212.0 | 320.6 | 209.1 | 173.6 | 252.2 | 233.0 | 215.8 | 194.6 | 185.6 |
| 25–34 years | 503.5 | 402.5 | 559.5 | 407.3 | 351.9 | 430.8 | 361.0 | 308.6 | 282.0 | 268.4 |
| 35–44 years | 878.1 | 762.0 | 956.6 | 689.8 | 630.2 | 699.6 | 629.2 | 523.7 | 483.1 | 473.6 |
| 45–54 years | 1,905.0 | 1,624.8 | 1,777.5 | 1,479.9 | 1,292.9 | 1,261.0 | 1,190.6 | 1,114.1 | 1,082.6 | 1,081.9 |
| 55–64 years | 3,773.2 | 3,316.4 | 3,256.9 | 2,873.0 | 2,779.8 | 2,618.4 | 2,395.1 | 2,320.0 | 2,269.3 | 2,244.0 |
| 65–74 years | 5,310.3 | 5,798.7 | 5,803.2 | 5,131.1 | 5,172.4 | 4,946.1 | 4,431.5 | 4,298.3 | 4,186.0 | 4,182.8 |
| 75–84 years ³ | 10,101.9 | 8,605.1 | 9,454.9 | 9,231.6 | 9,262.3 | 9,129.5 | 8,614.9 | 8,296.8 | 8,311.4 | 8,352.6 |
| 85 years and over | --- | 14,844.8 | 12,222.3 | 16,098.8 | 15,774.2 | 16,954.9 | 16,006.3 | 16,083.5 | 15,540.9 | 16,047.8 |
| American Indian or Alaska Native male⁴ | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 1,111.5 | 926.1 | 916.2 | 838.5 | 880.3 | 856.7 | 842.0 |
| All ages, crude | --- | --- | --- | 597.1 | 492.5 | 476.4 | 489.8 | 519.2 | 513.2 | 513.3 |
| Under 1 year | --- | --- | --- | 1,598.1 | 1,080.0 | 1,056.6 | 874.4 | 903.0 | 1,028.1 | 839.5 |
| 1–4 years | --- | --- | --- | 82.7 | 105.3 | 77.4 | 72.9 | 51.6 | 64.7 | 59.4 |
| 5–14 years | --- | --- | --- | 43.7 | 39.2 | 33.4 | 37.8 | 28.7 | 29.5 | 23.1 |
| 15–24 years | --- | --- | --- | 311.1 | 214.4 | 219.8 | 174.7 | 180.3 | 166.4 | 183.5 |
| 25–34 years | --- | --- | --- | 360.6 | 275.0 | 256.1 | 260.0 | 245.4 | 235.1 | 218.5 |
| 35–44 years | --- | --- | --- | 556.8 | 363.5 | 365.4 | 370.0 | 389.3 | 373.6 | 362.1 |
| 45–54 years | --- | --- | --- | 871.3 | 687.9 | 619.9 | 580.2 | 673.4 | 664.2 | 683.1 |
| 55–64 years | --- | --- | --- | 1,547.5 | 1,319.1 | 1,211.3 | 1,348.0 | 1,409.6 | 1,376.9 | 1,321.8 |
| 65–74 years | --- | --- | --- | 2,968.4 | 2,692.3 | 2,461.7 | 2,640.7 | 2,847.2 | 2,682.8 | 2,816.8 |
| 75–84 years | --- | --- | --- | 5,607.0 | 5,572.7 | 5,389.2 | 4,633.8 | 4,796.3 | 4,471.3 | 4,653.0 |
| 85 years and over | --- | --- | --- | 12,635.2 | 8,900.0 | 11,243.9 | 7,686.7 | 7,888.1 | 8,486.2 | 6,946.2 |
| Asian or Pacific Islander male⁵ | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 786.5 | 755.4 | 716.4 | 678.0 | 671.1 | 642.3 | 640.6 |
| All ages, crude | --- | --- | --- | 375.3 | 344.6 | 334.3 | 350.7 | 351.7 | 349.8 | 352.7 |
| Under 1 year | --- | --- | --- | 816.5 | 750.0 | 605.3 | 457.6 | 426.3 | 397.0 | 403.4 |
| 1–4 years | --- | --- | --- | 50.9 | 43.4 | 45.0 | 24.6 | 25.5 | 17.6 | 26.6 |
| 5–14 years | --- | --- | --- | 23.4 | 22.5 | 20.7 | 17.1 | 17.3 | 17.6 | 12.9 |
| 15–24 years | --- | --- | --- | 80.8 | 76.0 | 76.0 | 73.2 | 67.2 | 59.9 | 58.7 |
| 25–34 years | --- | --- | --- | 83.5 | 77.3 | 79.6 | 75.6 | 71.8 | 74.4 | 68.4 |
| 35–44 years | --- | --- | --- | 128.3 | 114.4 | 130.8 | 125.0 | 115.7 | 108.2 | 112.4 |
| 45–54 years | --- | --- | --- | 342.3 | 284.8 | 287.1 | 277.0 | 274.8 | 276.2 | 252.2 |
| 55–64 years | --- | --- | --- | 881.1 | 869.4 | 789.1 | 726.3 | 750.8 | 709.3 | 701.6 |
| 65–74 years | --- | --- | --- | 2,236.1 | 2,102.0 | 2,041.4 | 1,948.4 | 1,892.6 | 1,838.7 | 1,808.0 |
| 75–84 years | --- | --- | --- | 5,389.5 | 5,551.2 | 5,008.6 | 4,844.3 | 4,749.1 | 4,534.8 | 4,581.6 |
| 85 years and over | --- | --- | --- | 13,753.6 | 12,750.0 | 12,446.3 | 11,637.4 | 11,796.3 | 11,178.6 | 11,343.5 |
| Hispanic male⁶ | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 889.2 | 886.4 | 795.9 | 760.2 | 743.7 | 736.0 |
| All ages, crude | --- | --- | --- | --- | 374.6 | 411.6 | 381.3 | 360.5 | 366.4 | 367.9 |
| Under 1 year | --- | --- | --- | --- | 1,044.6 | 921.8 | 686.2 | 654.3 | 678.5 | 655.3 |
| 1–4 years | --- | --- | --- | --- | 53.8 | 53.8 | 37.3 | 34.1 | 33.1 | 34.3 |
| 5–14 years | --- | --- | --- | --- | 23.0 | 26.0 | 23.5 | 18.7 | 20.2 | 19.4 |
| 15–24 years | --- | --- | --- | --- | 147.5 | 159.3 | 140.3 | 129.1 | 128.8 | 124.9 |
| 25–34 years | --- | --- | --- | --- | 202.1 | 234.0 | 175.0 | 154.5 | 148.4 | 151.6 |
| 35–44 years | --- | --- | --- | --- | 290.1 | 341.8 | 279.7 | 235.7 | 226.6 | 226.0 |
| 45–54 years | --- | --- | --- | --- | 495.7 | 533.9 | 493.7 | 456.1 | 449.3 | 456.3 |
| 55–64 years | --- | --- | --- | --- | 1,129.4 | 1,123.7 | 1,032.0 | 957.8 | 966.3 | 962.6 |
| 65–74 years | --- | --- | --- | --- | 2,484.9 | 2,368.2 | 2,245.4 | 2,251.7 | 2,284.9 | 2,219.4 |
| 75–84 years | --- | --- | --- | --- | 5,696.1 | 5,369.1 | 4,966.4 | 4,750.3 | 4,564.6 | 4,525.1 |
| 85 years and over | --- | --- | --- | --- | 12,156.2 | 12,272.1 | 10,617.7 | 10,487.1 | 9,946.7 | 9,842.3 |

See footnotes at end of table.

Table 36 (page 3 of 4). Death rates for all causes, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1985</i> | <i>1990</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>1999</i> |
|------------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Deaths per 100,000 resident population | | | | | | | | | | |
| White, non-Hispanic male ⁶ | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 1,215.6 | 1,170.9 | 1,089.9 | 1,070.8 | 1,047.0 | 1,045.1 |
| All ages, crude | --- | --- | --- | --- | 956.3 | 985.9 | 982.1 | 977.3 | 974.7 | 984.7 |
| Under 1 year | --- | --- | --- | --- | 1,002.0 | 865.4 | 654.6 | 662.4 | 651.5 | 636.5 |
| 1–4 years | --- | --- | --- | --- | 48.8 | 43.8 | 36.2 | 34.8 | 31.8 | 32.9 |
| 5–14 years | --- | --- | --- | --- | 28.9 | 25.7 | 22.5 | 22.4 | 21.0 | 20.1 |
| 15–24 years | --- | --- | --- | --- | 125.0 | 123.4 | 105.6 | 102.7 | 101.2 | 98.7 |
| 25–34 years | --- | --- | --- | --- | 151.2 | 165.3 | 147.2 | 134.8 | 128.1 | 128.4 |
| 35–44 years | --- | --- | --- | --- | 231.8 | 257.1 | 252.3 | 231.4 | 229.7 | 228.2 |
| 45–54 years | --- | --- | --- | --- | 587.7 | 544.5 | 509.0 | 494.0 | 487.2 | 491.6 |
| 55–64 years | --- | --- | --- | --- | 1,550.7 | 1,479.7 | 1,308.7 | 1,264.7 | 1,224.0 | 1,208.0 |
| 65–74 years | --- | --- | --- | --- | 3,648.1 | 3,434.5 | 3,181.1 | 3,154.6 | 3,112.5 | 3,077.6 |
| 75–84 years | --- | --- | --- | --- | 8,361.0 | 7,920.4 | 7,274.5 | 7,154.7 | 7,072.8 | 7,057.5 |
| 85 years and over | --- | --- | --- | --- | 18,635.3 | 18,505.4 | 18,110.1 | 18,066.9 | 17,363.4 | 17,539.1 |
| White female | | | | | | | | | | |
| All ages, age adjusted | 1,198.0 | 1,074.4 | 944.0 | 796.1 | 764.3 | 728.8 | 723.3 | 718.3 | 715.1 | 725.7 |
| All ages, crude | 803.3 | 800.9 | 812.6 | 806.1 | 840.1 | 846.9 | 896.2 | 897.8 | 903.7 | 924.1 |
| Under 1 year | 2,566.8 | 2,007.7 | 1,614.6 | 962.5 | 799.3 | 690.0 | 558.0 | 546.0 | 563.6 | 532.6 |
| 1–4 years | 112.2 | 85.2 | 66.1 | 49.3 | 40.0 | 36.1 | 28.5 | 28.0 | 27.5 | 27.4 |
| 5–14 years | 45.1 | 34.7 | 29.9 | 22.9 | 19.5 | 17.9 | 16.4 | 15.6 | 15.0 | 14.9 |
| 15–24 years | 71.5 | 54.9 | 61.6 | 55.5 | 48.1 | 45.9 | 42.7 | 43.8 | 41.2 | 42.2 |
| 25–34 years | 112.8 | 85.0 | 84.1 | 65.4 | 59.4 | 61.5 | 62.7 | 60.0 | 58.5 | 58.4 |
| 35–44 years | 235.8 | 191.1 | 193.3 | 138.2 | 121.9 | 117.4 | 121.6 | 120.9 | 122.0 | 123.3 |
| 45–54 years | 546.4 | 458.8 | 462.9 | 372.7 | 341.7 | 309.3 | 290.5 | 285.0 | 278.3 | 281.8 |
| 55–64 years | 1,293.8 | 1,078.9 | 1,014.9 | 876.2 | 869.1 | 822.7 | 779.5 | 766.3 | 740.6 | 739.1 |
| 65–74 years | 3,242.8 | 2,779.3 | 2,470.7 | 2,066.6 | 2,027.1 | 1,923.5 | 1,919.8 | 1,900.5 | 1,912.9 | 1,916.2 |
| 75–84 years | 8,481.5 | 7,696.6 | 6,698.7 | 5,401.7 | 5,111.6 | 4,839.1 | 4,826.5 | 4,786.3 | 4,792.7 | 4,869.7 |
| 85 years and over | 19,679.5 | 19,477.7 | 15,980.2 | 14,979.6 | 14,745.4 | 14,400.6 | 14,642.9 | 14,681.4 | 14,620.4 | 15,053.8 |
| Black female | | | | | | | | | | |
| All ages, age adjusted | 1,545.5 | 1,369.7 | 1,228.7 | 1,033.3 | 994.4 | 975.1 | 956.3 | 940.7 | 938.2 | 955.0 |
| All ages, crude | 1,002.0 | 905.0 | 829.2 | 733.3 | 734.2 | 747.9 | 753.5 | 742.8 | 746.4 | 761.3 |
| Under 1 year | --- | 4,162.2 | 3,368.8 | 2,123.7 | 1,821.4 | 1,735.5 | 1,444.0 | 1,383.9 | 1,390.1 | 1,403.3 |
| 1–4 years ² | 1,139.3 | 173.3 | 129.4 | 84.4 | 71.1 | 67.6 | 63.7 | 51.0 | 53.9 | 51.5 |
| 5–14 years | 72.8 | 53.8 | 43.8 | 30.5 | 28.6 | 27.5 | 25.9 | 27.2 | 23.1 | 22.6 |
| 15–24 years | 213.1 | 107.5 | 111.9 | 70.5 | 59.6 | 68.7 | 66.8 | 62.0 | 58.0 | 60.1 |
| 25–34 years | 393.3 | 273.2 | 231.0 | 150.0 | 137.6 | 159.5 | 153.8 | 134.6 | 130.0 | 122.0 |
| 35–44 years | 758.1 | 568.5 | 533.0 | 323.9 | 276.5 | 298.6 | 316.4 | 287.1 | 284.9 | 282.6 |
| 45–54 years | 1,576.4 | 1,177.0 | 1,043.9 | 768.2 | 667.6 | 639.4 | 610.1 | 590.4 | 582.0 | 581.0 |
| 55–64 years | 3,089.4 | 2,510.9 | 1,986.2 | 1,561.0 | 1,532.5 | 1,452.6 | 1,311.7 | 1,307.3 | 1,272.2 | 1,255.7 |
| 65–74 years | 4,000.2 | 4,064.2 | 3,860.9 | 3,057.4 | 2,967.8 | 2,865.7 | 2,787.0 | 2,739.7 | 2,724.6 | 2,732.1 |
| 75–84 years ³ | 8,347.0 | 6,730.0 | 6,691.5 | 6,212.1 | 6,078.0 | 5,688.3 | 5,775.9 | 5,669.3 | 5,813.8 | 6,002.7 |
| 85 years and over | --- | 13,052.6 | 10,706.6 | 12,367.2 | 12,703.0 | 13,309.5 | 13,398.5 | 13,701.7 | 13,580.5 | 14,262.9 |
| American Indian or Alaska Native female ⁴ | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 662.4 | 577.2 | 561.8 | 590.5 | 574.0 | 582.2 | 608.5 |
| All ages, crude | --- | --- | --- | 380.1 | 342.5 | 330.4 | 396.0 | 392.6 | 407.0 | 431.2 |
| Under 1 year | --- | --- | --- | 1,352.6 | 910.5 | 688.7 | 718.2 | 646.1 | 825.0 | 772.5 |
| 1–4 years | --- | --- | --- | 87.5 | 54.8 | 37.8 | 67.1 | 66.8 | 53.5 | 43.1 |
| 5–14 years | --- | --- | --- | 33.5 | 23.0 | 25.5 | 23.7 | 22.2 | 19.6 | 21.7 |
| 15–24 years | --- | --- | --- | 90.3 | 72.8 | 69.0 | 62.5 | 57.5 | 64.1 | 67.5 |
| 25–34 years | --- | --- | --- | 178.5 | 121.5 | 102.3 | 108.9 | 116.3 | 118.3 | 124.2 |
| 35–44 years | --- | --- | --- | 286.0 | 185.6 | 156.4 | 196.3 | 195.6 | 195.1 | 211.5 |
| 45–54 years | --- | --- | --- | 491.4 | 415.5 | 380.9 | 435.4 | 387.4 | 388.3 | 365.0 |
| 55–64 years | --- | --- | --- | 837.1 | 851.9 | 805.9 | 862.2 | 866.9 | 863.6 | 960.4 |
| 65–74 years | --- | --- | --- | 1,765.5 | 1,630.3 | 1,679.4 | 1,878.8 | 1,920.5 | 1,932.4 | 2,042.0 |
| 75–84 years | --- | --- | --- | 3,612.9 | 3,200.0 | 3,073.2 | 3,657.1 | 3,531.6 | 3,440.5 | 3,673.0 |
| 85 years and over | --- | --- | --- | 8,567.4 | 7,740.0 | 8,201.1 | 6,193.5 | 5,773.6 | 6,366.9 | 6,395.1 |

See footnotes at end of table.

Table 36 (page 4 of 4). Death rates for all causes, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1990 | 1996 | 1997 | 1998 | 1999 |
|-----------------------------------------------|-------------------|-------------------|------|---------|----------|----------|----------|----------|----------|----------|
| Deaths per 100,000 resident population | | | | | | | | | | |
| Asian or Pacific Islander female ⁵ | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 425.9 | 456.7 | 469.3 | 433.2 | 429.7 | 420.4 | 424.0 |
| All ages, crude | --- | --- | --- | 222.5 | 224.9 | 234.3 | 257.9 | 264.3 | 262.5 | 272.8 |
| Under 1 year | --- | --- | --- | 755.8 | 622.0 | 518.2 | 347.4 | 343.7 | 380.2 | 373.4 |
| 1–4 years | --- | --- | --- | 35.4 | 36.8 | 32.0 | 25.6 | 24.7 | 19.9 | 19.4 |
| 5–14 years | --- | --- | --- | 21.5 | 19.1 | 13.0 | 11.4 | 13.8 | 12.4 | 11.5 |
| 15–24 years | --- | --- | --- | 32.3 | 30.7 | 28.8 | 30.6 | 33.4 | 28.8 | 29.1 |
| 25–34 years | --- | --- | --- | 45.4 | 36.5 | 37.5 | 35.4 | 32.4 | 33.7 | 32.4 |
| 35–44 years | --- | --- | --- | 89.7 | 77.8 | 69.9 | 68.7 | 74.1 | 61.6 | 60.6 |
| 45–54 years | --- | --- | --- | 214.1 | 184.9 | 182.7 | 173.8 | 166.6 | 160.5 | 173.5 |
| 55–64 years | --- | --- | --- | 440.8 | 468.0 | 483.4 | 417.7 | 423.4 | 412.9 | 430.6 |
| 65–74 years | --- | --- | --- | 1,027.7 | 1,130.8 | 1,089.2 | 1,090.8 | 1,117.3 | 1,083.1 | 1,106.1 |
| 75–84 years | --- | --- | --- | 2,833.6 | 2,873.9 | 3,127.9 | 3,118.8 | 3,052.1 | 2,917.4 | 2,980.1 |
| 85 years and over | --- | --- | --- | 7,923.3 | 9,808.3 | 10,254.0 | 8,599.1 | 8,414.1 | 8,618.4 | 8,396.6 |
| Hispanic female ⁶ | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 546.1 | 537.1 | 500.5 | 493.0 | 478.2 | 490.1 |
| All ages, crude | --- | --- | --- | --- | 251.9 | 285.4 | 289.8 | 288.0 | 283.6 | 293.7 |
| Under 1 year | --- | --- | --- | --- | 791.4 | 746.6 | 540.2 | 572.3 | 568.7 | 565.9 |
| 1–4 years | --- | --- | --- | --- | 42.3 | 42.1 | 29.6 | 28.4 | 27.6 | 29.8 |
| 5–14 years | --- | --- | --- | --- | 16.0 | 17.3 | 16.9 | 15.6 | 14.1 | 14.4 |
| 15–24 years | --- | --- | --- | --- | 36.2 | 40.6 | 39.2 | 38.3 | 34.0 | 36.4 |
| 25–34 years | --- | --- | --- | --- | 56.3 | 62.9 | 61.1 | 54.6 | 51.0 | 51.8 |
| 35–44 years | --- | --- | --- | --- | 100.0 | 109.3 | 108.2 | 101.1 | 96.7 | 99.9 |
| 45–54 years | --- | --- | --- | --- | 251.3 | 253.3 | 231.8 | 228.3 | 225.8 | 226.7 |
| 55–64 years | --- | --- | --- | --- | 619.7 | 607.5 | 580.9 | 580.3 | 543.6 | 536.0 |
| 65–74 years | --- | --- | --- | --- | 1,449.5 | 1,453.8 | 1,400.0 | 1,381.9 | 1,384.3 | 1,366.8 |
| 75–84 years | --- | --- | --- | --- | 3,551.8 | 3,351.3 | 3,279.4 | 3,220.5 | 3,140.1 | 3,245.6 |
| 85 years and over | --- | --- | --- | --- | 10,228.6 | 10,098.7 | 8,783.9 | 8,708.6 | 8,336.0 | 8,838.7 |
| White, non-Hispanic female ⁶ | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 754.3 | 734.6 | 729.5 | 725.3 | 723.8 | 734.9 |
| All ages, crude | --- | --- | --- | --- | 861.7 | 903.6 | 965.0 | 971.2 | 982.5 | 1,007.4 |
| Under 1 year | --- | --- | --- | --- | 763.0 | 655.3 | 541.1 | 519.6 | 544.6 | 505.6 |
| 1–4 years | --- | --- | --- | --- | 36.5 | 34.0 | 27.8 | 27.3 | 27.0 | 26.2 |
| 5–14 years | --- | --- | --- | --- | 19.0 | 17.6 | 15.9 | 15.3 | 14.9 | 14.8 |
| 15–24 years | --- | --- | --- | --- | 47.9 | 46.0 | 42.4 | 44.1 | 41.9 | 42.6 |
| 25–34 years | --- | --- | --- | --- | 59.0 | 60.6 | 61.7 | 60.0 | 58.7 | 58.6 |
| 35–44 years | --- | --- | --- | --- | 122.8 | 116.8 | 121.1 | 121.7 | 123.7 | 124.8 |
| 45–54 years | --- | --- | --- | --- | 335.7 | 312.1 | 292.0 | 287.3 | 280.5 | 284.5 |
| 55–64 years | --- | --- | --- | --- | 853.3 | 834.5 | 787.6 | 775.7 | 751.3 | 751.0 |
| 65–74 years | --- | --- | --- | --- | 1,998.1 | 1,940.2 | 1,937.1 | 1,920.3 | 1,935.8 | 1,942.9 |
| 75–84 years | --- | --- | --- | --- | 5,059.1 | 4,887.3 | 4,868.1 | 4,831.1 | 4,847.8 | 4,926.2 |
| 85 years and over | --- | --- | --- | --- | 14,560.4 | 14,533.1 | 14,826.1 | 14,864.0 | 14,839.2 | 15,284.6 |

--- Data not available.

¹Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

²In 1950 rate is for the age group under 5 years.

³In 1950 rate is for the age group 75 years and over.

⁴Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

⁵Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

⁶Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for Hispanic and non-Hispanic white for 1985 (and 1986–89, 1991 available electronically) were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. Grove RD and Hetzel AM. *Vital statistics rates in the United States, 1940–60*. Washington: Public Health Service, 1968; *Vital statistics of the United States, vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/data/wh/statab/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 37 (page 1 of 3). Death rates for diseases of heart, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> <i>1999³</i> | |
|------------------------------------------------|----------------------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------------------------------------------------------------------|---------|
| All persons | Deaths per 100,000 resident population | | | | | | | | | | |
| All ages, age adjusted | 586.8 | 559.0 | 492.7 | 412.1 | 321.8 | 296.3 | 288.3 | 280.4 | 272.4 | 268.5 | 267.8 |
| All ages, crude | 355.5 | 369.0 | 362.0 | 336.0 | 289.5 | 280.7 | 276.4 | 271.6 | 268.2 | 264.4 | 265.9 |
| Under 1 year. | 3.5 | 6.6 | 13.1 | 22.8 | 20.1 | 17.1 | 16.6 | 16.4 | 16.1 | 15.9 | 13.7 |
| 1–4 years | 1.3 | 1.3 | 1.7 | 2.6 | 1.9 | 1.6 | 1.4 | 1.4 | 1.4 | 1.4 | 1.2 |
| 5–14 years | 2.1 | 1.3 | 0.8 | 0.9 | 0.9 | 0.8 | 0.9 | 0.8 | 0.8 | 0.8 | 0.7 |
| 15–24 years | 6.8 | 4.0 | 3.0 | 2.9 | 2.5 | 2.9 | 2.7 | 3.0 | 2.8 | 2.8 | 2.8 |
| 25–34 years | 19.4 | 15.6 | 11.4 | 8.3 | 7.6 | 8.5 | 8.3 | 8.3 | 8.3 | 8.2 | 8.1 |
| 35–44 years | 86.4 | 74.6 | 66.7 | 44.6 | 31.4 | 32.0 | 30.5 | 30.1 | 30.5 | 30.1 | 30.3 |
| 45–54 years | 308.6 | 271.8 | 238.4 | 180.2 | 120.5 | 111.0 | 108.2 | 104.9 | 101.4 | 100.0 | 97.7 |
| 55–64 years | 808.1 | 737.9 | 652.3 | 494.1 | 367.3 | 322.9 | 315.2 | 302.4 | 286.9 | 282.8 | 274.3 |
| 65–74 years | 1,839.8 | 1,740.5 | 1,558.2 | 1,218.6 | 894.3 | 799.9 | 776.2 | 753.7 | 735.5 | 725.1 | 709.5 |
| 75–84 years | 4,310.1 | 4,089.4 | 3,683.8 | 2,993.1 | 2,295.7 | 2,064.7 | 2,010.2 | 1,943.6 | 1,897.3 | 1,870.4 | 1,861.8 |
| 85 years and over | 9,150.6 | 9,317.8 | 7,891.3 | 7,777.1 | 6,739.9 | 6,484.1 | 6,314.5 | 6,198.9 | 6,009.6 | 5,924.3 | 6,032.5 |
| Male | | | | | | | | | | | |
| All ages, age adjusted | 697.0 | 687.6 | 634.0 | 538.9 | 412.4 | 372.7 | 360.7 | 349.6 | 336.6 | 331.8 | 328.1 |
| All ages, crude | 423.4 | 439.5 | 422.5 | 368.6 | 297.6 | 282.7 | 277.4 | 272.2 | 268.0 | 264.2 | 263.8 |
| Under 1 year. | 4.0 | 7.8 | 15.1 | 25.5 | 21.9 | 17.5 | 17.4 | 18.0 | 16.2 | 16.0 | 13.8 |
| 1–4 years | 1.4 | 1.4 | 1.9 | 2.8 | 1.9 | 1.7 | 1.4 | 1.5 | 1.5 | 1.5 | 1.3 |
| 5–14 years | 2.0 | 1.4 | 0.9 | 1.0 | 0.9 | 0.8 | 0.9 | 0.9 | 1.0 | 1.0 | 0.8 |
| 15–24 years | 6.8 | 4.2 | 3.7 | 3.7 | 3.1 | 3.6 | 3.3 | 3.6 | 3.5 | 3.5 | 3.4 |
| 25–34 years | 22.9 | 20.1 | 15.2 | 11.4 | 10.3 | 11.4 | 11.0 | 10.8 | 10.8 | 10.6 | 10.6 |
| 35–44 years | 118.4 | 112.7 | 103.2 | 68.7 | 48.1 | 47.2 | 44.2 | 43.7 | 44.0 | 43.4 | 43.3 |
| 45–54 years | 440.5 | 420.4 | 376.4 | 282.6 | 183.0 | 168.6 | 161.8 | 157.7 | 152.2 | 150.0 | 145.7 |
| 55–64 years | 1,104.5 | 1,066.9 | 987.2 | 746.8 | 537.3 | 465.4 | 453.8 | 434.6 | 411.1 | 405.3 | 391.6 |
| 65–74 years | 2,292.3 | 2,291.3 | 2,170.3 | 1,728.0 | 1,250.0 | 1,102.3 | 1,065.0 | 1,031.1 | 997.3 | 983.1 | 961.6 |
| 75–84 years | 4,825.0 | 4,742.4 | 4,534.8 | 3,834.3 | 2,968.2 | 2,615.0 | 2,529.4 | 2,443.6 | 2,377.2 | 2,343.4 | 2,308.9 |
| 85 years and over | 9,659.8 | 9,788.9 | 8,426.2 | 8,752.7 | 7,418.4 | 7,039.6 | 6,834.0 | 6,658.5 | 6,330.6 | 6,240.7 | 6,313.3 |
| Female | | | | | | | | | | | |
| All ages, age adjusted | 484.7 | 447.0 | 381.6 | 320.8 | 257.0 | 239.7 | 234.1 | 228.1 | 223.1 | 219.9 | 220.9 |
| All ages, crude | 288.4 | 300.6 | 304.5 | 305.1 | 281.8 | 278.8 | 275.5 | 271.1 | 268.3 | 264.5 | 268.0 |
| Under 1 year. | 2.9 | 5.4 | 10.9 | 20.0 | 18.3 | 16.7 | 15.7 | 14.7 | 16.1 | 15.9 | 13.6 |
| 1–4 years | 1.2 | 1.1 | 1.6 | 2.5 | 1.9 | 1.5 | 1.4 | 1.2 | 1.3 | 1.3 | 1.1 |
| 5–14 years | 2.2 | 1.2 | 0.8 | 0.9 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.6 |
| 15–24 years | 6.7 | 3.7 | 2.3 | 2.1 | 1.8 | 2.2 | 2.0 | 2.4 | 2.1 | 2.1 | 2.2 |
| 25–34 years | 16.2 | 11.3 | 7.7 | 5.3 | 5.0 | 5.6 | 5.6 | 5.8 | 5.8 | 5.7 | 5.6 |
| 35–44 years | 55.1 | 38.2 | 32.2 | 21.4 | 15.1 | 17.1 | 16.8 | 16.5 | 17.3 | 17.1 | 17.6 |
| 45–54 years | 177.2 | 127.5 | 109.9 | 84.5 | 61.0 | 56.0 | 56.9 | 54.3 | 52.8 | 52.1 | 51.9 |
| 55–64 years | 510.0 | 429.4 | 351.6 | 272.1 | 215.7 | 193.9 | 189.3 | 182.1 | 173.9 | 171.4 | 167.5 |
| 65–74 years | 1,419.3 | 1,261.3 | 1,082.7 | 828.6 | 616.8 | 557.8 | 543.8 | 529.4 | 522.6 | 515.2 | 503.2 |
| 75–84 years | 3,872.0 | 3,582.7 | 3,120.8 | 2,497.0 | 1,893.8 | 1,715.2 | 1,674.7 | 1,616.6 | 1,579.5 | 1,557.1 | 1,562.5 |
| 85 years and over | 8,796.1 | 9,016.8 | 7,591.8 | 7,350.5 | 6,478.1 | 6,267.8 | 6,108.0 | 6,013.7 | 5,876.6 | 5,793.2 | 5,913.8 |
| White male | | | | | | | | | | | |
| All ages, age adjusted | 700.2 | 694.5 | 640.2 | 539.6 | 409.2 | 368.4 | 358.2 | 346.9 | 333.2 | 328.5 | 324.7 |
| All ages, crude | 433.0 | 454.6 | 438.3 | 384.0 | 312.7 | 297.9 | 293.3 | 287.7 | 283.1 | 279.1 | 278.8 |
| 45–54 years | 423.6 | 413.2 | 365.7 | 269.8 | 170.6 | 155.7 | 149.8 | 145.4 | 140.2 | 138.2 | 134.7 |
| 55–64 years | 1,081.7 | 1,056.0 | 979.3 | 730.6 | 516.7 | 443.0 | 431.8 | 411.2 | 388.1 | 382.6 | 367.6 |
| 65–74 years | 2,308.3 | 2,297.9 | 2,177.2 | 1,729.7 | 1,230.5 | 1,080.5 | 1,049.5 | 1,015.1 | 981.3 | 967.4 | 942.1 |
| 75–84 years | 4,907.3 | 4,839.9 | 4,617.6 | 3,883.2 | 2,983.4 | 2,616.1 | 2,536.0 | 2,453.7 | 2,381.5 | 2,347.7 | 2,313.9 |
| 85 years and over | 9,950.5 | 10,135.8 | 8,818.0 | 8,958.0 | 7,558.7 | 7,165.5 | 7,014.5 | 6,829.7 | 6,478.8 | 6,386.8 | 6,462.1 |
| Black male | | | | | | | | | | | |
| All ages, age adjusted | 639.4 | 615.2 | 607.3 | 561.4 | 485.4 | 449.2 | 426.3 | 414.0 | 407.8 | 402.0 | 398.9 |
| All ages, crude | 346.2 | 330.6 | 330.3 | 301.0 | 256.8 | 244.2 | 234.8 | 230.8 | 230.5 | 227.2 | 226.9 |
| 45–54 years | 622.5 | 514.0 | 512.8 | 433.4 | 328.9 | 317.1 | 297.7 | 293.7 | 282.7 | 278.7 | 267.6 |
| 55–64 years | 1,433.1 | 1,236.8 | 1,135.4 | 987.2 | 824.0 | 757.8 | 740.9 | 727.8 | 699.9 | 690.0 | 690.3 |
| 65–74 years | 2,139.1 | 2,281.4 | 2,237.8 | 1,847.2 | 1,632.9 | 1,482.9 | 1,381.3 | 1,335.4 | 1,312.7 | 1,294.1 | 1,294.0 |
| 75–84 years ⁴ | 4,106.1 | 3,533.6 | 3,783.4 | 3,578.8 | 3,107.1 | 2,881.4 | 2,762.0 | 2,641.6 | 2,649.3 | 2,611.7 | 2,560.2 |
| 85 years and over | --- | 6,037.9 | 5,367.6 | 6,819.5 | 6,479.6 | 5,985.7 | 5,675.4 | 5,538.7 | 5,446.7 | 5,369.4 | 5,433.3 |

See footnotes at end of table.

Table 37 (page 2 of 3). Death rates for diseases of heart, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|----------------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| American Indian or Alaska Native male⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 320.5 | 264.1 | 230.5 | 228.0 | 234.4 | 219.5 | 216.4 | 211.7 |
| All ages, crude | --- | --- | --- | 130.6 | 108.0 | 110.4 | 110.7 | 116.8 | 113.2 | 111.6 | 109.7 |
| 45–54 years | --- | --- | --- | 238.1 | 173.8 | 151.4 | 157.5 | 171.8 | 151.8 | 149.6 | 131.8 |
| 55–64 years | --- | --- | --- | 496.3 | 411.0 | 403.2 | 404.9 | 427.2 | 402.5 | 396.8 | 346.3 |
| 65–74 years | --- | --- | --- | 1,009.4 | 839.1 | 918.5 | 778.0 | 828.1 | 793.6 | 782.3 | 866.1 |
| 75–84 years | --- | --- | --- | 2,062.2 | 1,788.8 | 1,534.9 | 1,546.5 | 1,513.8 | 1,274.0 | 1,255.9 | 1,428.4 |
| 85 years and over | --- | --- | --- | 4,413.7 | 3,860.3 | 2,308.7 | 2,660.1 | 2,764.2 | 2,800.9 | 2,761.1 | 2,181.3 |
| Asian or Pacific Islander male⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 286.9 | 220.7 | 247.2 | 208.8 | 204.5 | 197.9 | 195.1 | 196.7 |
| All ages, crude | --- | --- | --- | 119.8 | 88.7 | 96.9 | 97.3 | 97.4 | 98.3 | 96.9 | 99.2 |
| 45–54 years | --- | --- | --- | 112.0 | 70.4 | 73.4 | 75.4 | 72.1 | 72.9 | 71.9 | 64.0 |
| 55–64 years | --- | --- | --- | 306.7 | 226.1 | 214.3 | 220.7 | 218.3 | 210.8 | 207.8 | 202.8 |
| 65–74 years | --- | --- | --- | 852.4 | 623.5 | 605.8 | 581.2 | 585.1 | 522.7 | 515.3 | 523.1 |
| 75–84 years | --- | --- | --- | 2,010.9 | 1,642.2 | 1,680.5 | 1,534.8 | 1,432.1 | 1,493.0 | 1,471.8 | 1,459.2 |
| 85 years and over | --- | --- | --- | 5,923.0 | 4,617.8 | 6,372.3 | 4,338.0 | 4,392.5 | 4,110.7 | 4,052.3 | 4,229.6 |
| Hispanic male⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 270.0 | 246.8 | 232.8 | 223.9 | 213.8 | 210.8 | 212.7 |
| All ages, crude | --- | --- | --- | --- | 91.0 | 87.5 | 85.8 | 83.9 | 84.9 | 83.7 | 86.0 |
| 45–54 years | --- | --- | --- | --- | 116.4 | 103.0 | 98.7 | 96.2 | 96.0 | 94.6 | 94.7 |
| 55–64 years | --- | --- | --- | --- | 363.0 | 306.0 | 310.0 | 276.9 | 274.0 | 270.1 | 268.7 |
| 65–74 years | --- | --- | --- | --- | 829.9 | 750.0 | 725.7 | 737.2 | 706.6 | 696.6 | 690.6 |
| 75–84 years | --- | --- | --- | --- | 1,971.3 | 1,734.5 | 1,688.6 | 1,628.7 | 1,522.0 | 1,500.4 | 1,527.7 |
| 85 years and over | --- | --- | --- | --- | 4,711.9 | 4,699.7 | 4,078.6 | 3,844.6 | 3,641.9 | 3,590.2 | 3,658.0 |
| White, non-Hispanic male⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 413.6 | 370.6 | 362.0 | 351.9 | 338.3 | 333.5 | 329.5 |
| All ages, crude | --- | --- | --- | --- | 336.5 | 322.0 | 318.9 | 315.0 | 309.8 | 305.4 | 305.5 |
| 45–54 years | --- | --- | --- | --- | 172.8 | 157.5 | 152.1 | 148.5 | 142.8 | 140.8 | 137.2 |
| 55–64 years | --- | --- | --- | --- | 521.3 | 448.0 | 435.1 | 418.1 | 393.5 | 387.9 | 371.9 |
| 65–74 years | --- | --- | --- | --- | 1,243.4 | 1,088.3 | 1,056.4 | 1,025.1 | 991.7 | 977.6 | 952.0 |
| 75–84 years | --- | --- | --- | --- | 3,007.7 | 2,635.6 | 2,559.8 | 2,477.3 | 2,411.2 | 2,377.0 | 2,342.5 |
| 85 years and over | --- | --- | --- | --- | 7,663.4 | 7,166.3 | 7,109.2 | 6,954.2 | 6,604.4 | 6,510.6 | 6,589.0 |
| White female | | | | | | | | | | | |
| All ages, age adjusted | 478.0 | 441.7 | 376.7 | 315.9 | 250.9 | 233.6 | 228.6 | 222.9 | 217.6 | 214.5 | 215.5 |
| All ages, crude | 289.4 | 306.5 | 313.8 | 319.2 | 298.4 | 297.4 | 294.2 | 289.8 | 286.8 | 282.7 | 286.6 |
| 45–54 years | 141.9 | 103.4 | 91.4 | 71.2 | 50.2 | 45.9 | 46.9 | 44.9 | 43.4 | 42.8 | 42.8 |
| 55–64 years | 460.2 | 383.0 | 317.7 | 248.1 | 192.4 | 173.1 | 167.8 | 162.5 | 153.9 | 151.7 | 149.5 |
| 65–74 years | 1,400.9 | 1,229.8 | 1,044.0 | 796.7 | 583.6 | 526.3 | 515.1 | 500.7 | 493.8 | 486.8 | 474.3 |
| 75–84 years | 3,925.2 | 3,629.7 | 3,143.5 | 2,493.6 | 1,874.3 | 1,689.8 | 1,652.9 | 1,595.9 | 1,556.3 | 1,534.2 | 1,534.8 |
| 85 years and over | 9,084.7 | 9,280.8 | 7,839.9 | 7,501.6 | 6,563.4 | 6,352.6 | 6,211.4 | 6,108.0 | 5,971.4 | 5,886.6 | 6,006.4 |
| Black female | | | | | | | | | | | |
| All ages, age adjusted | 536.9 | 488.9 | 435.6 | 378.6 | 327.5 | 309.3 | 302.4 | 294.7 | 291.9 | 287.8 | 290.5 |
| All ages, crude | 287.6 | 268.5 | 261.0 | 249.7 | 237.0 | 231.1 | 229.0 | 224.2 | 224.6 | 221.4 | 224.0 |
| 45–54 years | 525.3 | 360.7 | 290.9 | 202.4 | 155.3 | 143.1 | 144.7 | 134.8 | 132.9 | 131.0 | 128.3 |
| 55–64 years | 1,210.2 | 952.3 | 710.5 | 530.1 | 442.0 | 384.9 | 388.4 | 364.8 | 361.5 | 356.4 | 336.1 |
| 65–74 years | 1,659.4 | 1,680.5 | 1,553.2 | 1,210.3 | 1,017.5 | 933.7 | 890.0 | 871.6 | 858.8 | 846.6 | 832.7 |
| 75–84 years ⁴ | 3,499.3 | 2,926.9 | 2,964.1 | 2,707.2 | 2,250.9 | 2,163.1 | 2,097.7 | 2,030.5 | 2,044.8 | 2,015.8 | 2,070.1 |
| 85 years and over | --- | 5,650.0 | 5,003.8 | 5,796.5 | 5,766.1 | 5,614.8 | 5,493.6 | 5,542.5 | 5,373.1 | 5,296.8 | 5,525.6 |

See footnotes at end of table.

Table 37 (page 3 of 3). Death rates for diseases of heart, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | Comparability modified 1998 ² | 1999 ³ |
|------------------------------------------------------------|-------------------|-------------------|------|---------|---------|---------|---------|---------|---------|------------------------------------------------|-------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| American Indian or Alaska Native female⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 175.4 | 153.1 | 145.8 | 141.6 | 141.1 | 137.8 | 135.8 | 138.3 |
| All ages, crude | --- | --- | --- | 80.3 | 77.5 | 87.0 | 86.7 | 88.6 | 89.0 | 87.7 | 91.0 |
| 45–54 years | --- | --- | --- | 65.2 | 62.0 | 69.2 | 61.1 | 59.7 | 49.4 | 48.7 | 51.4 |
| 55–64 years | --- | --- | --- | 193.5 | 197.0 | 210.2 | 192.5 | 172.8 | 183.3 | 180.7 | 183.4 |
| 65–74 years | --- | --- | --- | 577.2 | 492.8 | 503.3 | 512.8 | 473.8 | 440.3 | 434.0 | 464.3 |
| 75–84 years | --- | --- | --- | 1,364.3 | 1,050.3 | 1,045.6 | 1,030.0 | 1,115.2 | 1,019.8 | 1,005.3 | 1,067.5 |
| 85 years and over | --- | --- | --- | 2,893.3 | 2,868.7 | 2,209.8 | 2,108.8 | 2,019.5 | 2,348.9 | 2,315.5 | 2,069.4 |
| Asian or Pacific Islander female⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 132.3 | 149.2 | 153.2 | 127.8 | 123.3 | 120.9 | 119.2 | 121.5 |
| All ages, crude | --- | --- | --- | 57.0 | 62.0 | 68.2 | 66.8 | 66.9 | 67.3 | 66.3 | 70.1 |
| 45–54 years | --- | --- | --- | 28.6 | 17.5 | 21.6 | 17.2 | 18.8 | 18.4 | 18.1 | 18.7 |
| 55–64 years | --- | --- | --- | 92.9 | 99.0 | 93.0 | 82.3 | 80.5 | 70.5 | 69.5 | 76.6 |
| 65–74 years | --- | --- | --- | 313.3 | 323.9 | 294.9 | 282.0 | 272.8 | 282.9 | 278.9 | 271.2 |
| 75–84 years | --- | --- | --- | 1,053.2 | 1,130.9 | 1,063.0 | 1,009.8 | 944.0 | 880.9 | 868.4 | 943.2 |
| 85 years and over | --- | --- | --- | 3,211.0 | 4,161.2 | 4,717.9 | 3,394.7 | 3,326.2 | 3,385.5 | 3,337.4 | 3,273.8 |
| Hispanic female⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 177.2 | 162.5 | 151.4 | 151.1 | 145.8 | 143.7 | 146.5 |
| All ages, crude | --- | --- | --- | --- | 79.4 | 78.9 | 77.0 | 78.3 | 77.7 | 76.6 | 79.0 |
| 45–54 years | --- | --- | --- | --- | 43.5 | 32.0 | 31.3 | 31.5 | 31.0 | 30.6 | 30.7 |
| 55–64 years | --- | --- | --- | --- | 153.2 | 137.3 | 125.1 | 129.5 | 122.4 | 120.7 | 118.1 |
| 65–74 years | --- | --- | --- | --- | 460.4 | 402.4 | 387.6 | 391.9 | 399.8 | 394.1 | 357.5 |
| 75–84 years | --- | --- | --- | --- | 1,259.7 | 1,150.1 | 1,152.8 | 1,102.4 | 1,071.1 | 1,055.9 | 1,091.5 |
| 85 years and over | --- | --- | --- | --- | 4,440.3 | 4,243.9 | 3,673.8 | 3,748.7 | 3,499.1 | 3,449.4 | 3,696.2 |
| White, non-Hispanic female⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 252.6 | 234.9 | 230.7 | 225.1 | 220.1 | 217.0 | 218.1 |
| All ages, crude | --- | --- | --- | --- | 320.0 | 321.4 | 318.9 | 315.6 | 313.6 | 309.1 | 314.2 |
| 45–54 years | --- | --- | --- | --- | 50.2 | 46.6 | 47.5 | 45.7 | 44.2 | 43.6 | 43.6 |
| 55–64 years | --- | --- | --- | --- | 193.6 | 173.6 | 169.0 | 163.9 | 155.3 | 153.1 | 150.9 |
| 65–74 years | --- | --- | --- | --- | 584.7 | 529.1 | 518.0 | 504.0 | 496.2 | 489.2 | 479.2 |
| 75–84 years | --- | --- | --- | --- | 1,890.2 | 1,697.8 | 1,663.5 | 1,609.4 | 1,571.1 | 1,548.8 | 1,548.6 |
| 85 years and over | --- | --- | --- | --- | 6,615.2 | 6,384.5 | 6,285.4 | 6,176.4 | 6,054.4 | 5,968.4 | 6,088.7 |

--- Data not available.

¹Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

²Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

³Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

⁴In 1950 rate is for the age group 75 years and over.

⁵Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

⁶Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

⁷Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. For data years shown, code numbers for cause of death are based on the then current revision of the *International Classification of Diseases* (ICD). See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for the black population in 1950 and for Hispanic and non-Hispanic white for 1985 (and 1986–89, 1991 available electronically) were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. *Vital statistics of the United States, vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/datawh/statabs/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 38 (page 1 of 3). Death rates for cerebrovascular diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| All persons | | | | | | | | | | | |
| All ages, age adjusted | 180.7 | 177.9 | 147.7 | 96.2 | 65.3 | 63.8 | 63.0 | 61.7 | 59.5 | 63.0 | 61.8 |
| All ages, crude | 104.0 | 108.0 | 101.9 | 75.0 | 57.8 | 60.0 | 60.1 | 59.6 | 58.5 | 61.9 | 61.4 |
| Under 1 year | 5.1 | 4.1 | 5.0 | 4.4 | 3.8 | 5.8 | 6.2 | 7.0 | 7.8 | 8.3 | 2.7 |
| 1–4 years | 0.9 | 0.8 | 1.0 | 0.5 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 |
| 5–14 years | 0.5 | 0.7 | 0.7 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 15–24 years | 1.6 | 1.8 | 1.6 | 1.0 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 25–34 years | 4.2 | 4.7 | 4.5 | 2.6 | 2.2 | 1.8 | 1.8 | 1.7 | 1.7 | 1.8 | 1.5 |
| 35–44 years | 18.7 | 14.7 | 15.6 | 8.5 | 6.4 | 6.5 | 6.3 | 6.3 | 5.9 | 6.2 | 5.7 |
| 45–54 years | 70.4 | 49.2 | 41.6 | 25.2 | 18.7 | 17.6 | 17.9 | 16.9 | 16.5 | 17.5 | 15.5 |
| 55–64 years | 194.2 | 147.3 | 115.8 | 65.1 | 47.9 | 46.0 | 45.3 | 44.3 | 42.5 | 45.0 | 41.3 |
| 65–74 years | 554.7 | 469.2 | 384.1 | 219.0 | 144.2 | 137.0 | 135.3 | 134.7 | 129.8 | 137.4 | 132.2 |
| 75–84 years | 1,499.6 | 1,491.3 | 1,254.2 | 786.9 | 498.0 | 480.4 | 476.0 | 461.0 | 454.3 | 481.0 | 472.8 |
| 85 years and over | 2,990.1 | 3,680.5 | 3,014.3 | 2,283.7 | 1,628.9 | 1,630.5 | 1,606.9 | 1,578.6 | 1,494.7 | 1,582.6 | 1,606.7 |
| Male | | | | | | | | | | | |
| All ages, age adjusted | 186.4 | 186.1 | 157.4 | 102.2 | 68.5 | 66.1 | 65.1 | 63.8 | 59.9 | 63.4 | 62.4 |
| All ages, crude | 102.5 | 104.5 | 94.5 | 63.4 | 46.7 | 47.9 | 48.0 | 47.7 | 46.2 | 48.9 | 48.4 |
| Under 1 year | 6.4 | 5.0 | 5.8 | 5.0 | 4.4 | 6.3 | 6.5 | 7.6 | 9.0 | 9.5 | 3.3 |
| 1–4 years | 1.1 | 0.9 | 1.2 | 0.4 | 0.3 | 0.4 | 0.3 | 0.5 | 0.3 | 0.3 | 0.3 |
| 5–14 years | 0.5 | 0.7 | 0.8 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 15–24 years | 1.8 | 1.9 | 1.8 | 1.1 | 0.7 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 |
| 25–34 years | 4.2 | 4.5 | 4.4 | 2.6 | 2.1 | 1.9 | 1.7 | 1.7 | 1.7 | 1.8 | 1.6 |
| 35–44 years | 17.5 | 14.6 | 15.7 | 8.7 | 6.8 | 7.0 | 6.7 | 6.5 | 6.2 | 6.6 | 5.9 |
| 45–54 years | 67.9 | 52.2 | 44.4 | 27.2 | 20.5 | 19.8 | 20.0 | 19.2 | 18.4 | 19.5 | 17.1 |
| 55–64 years | 205.2 | 163.8 | 138.7 | 74.6 | 54.3 | 53.3 | 52.4 | 51.4 | 49.4 | 52.3 | 47.6 |
| 65–74 years | 589.6 | 530.7 | 449.5 | 258.6 | 166.6 | 155.6 | 154.5 | 152.9 | 145.4 | 153.9 | 149.0 |
| 75–84 years | 1,543.6 | 1,555.9 | 1,361.6 | 866.3 | 551.1 | 516.1 | 507.6 | 487.9 | 473.7 | 501.6 | 494.5 |
| 85 years and over | 3,048.6 | 3,643.1 | 2,895.2 | 2,193.6 | 1,528.5 | 1,532.1 | 1,508.1 | 1,496.2 | 1,341.8 | 1,420.7 | 1,455.5 |
| Female | | | | | | | | | | | |
| All ages, age adjusted | 175.8 | 170.7 | 140.0 | 91.7 | 62.6 | 61.4 | 60.8 | 59.5 | 58.2 | 61.6 | 60.5 |
| All ages, crude | 105.6 | 111.4 | 109.0 | 85.9 | 68.4 | 71.5 | 71.8 | 71.0 | 70.2 | 74.3 | 73.8 |
| Under 1 year | 3.7 | 3.2 | 4.0 | 3.8 | 3.1 | 5.2 | 5.9 | 6.3 | 6.6 | 7.0 | 2.0 |
| 1–4 years | 0.7 | 0.7 | 0.7 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.3 |
| 5–14 years | 0.4 | 0.6 | 0.6 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 15–24 years | 1.5 | 1.6 | 1.4 | 0.8 | 0.6 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.5 |
| 25–34 years | 4.3 | 4.9 | 4.7 | 2.6 | 2.2 | 1.7 | 1.8 | 1.7 | 1.8 | 1.9 | 1.5 |
| 35–44 years | 19.9 | 14.8 | 15.6 | 8.4 | 6.1 | 6.0 | 5.8 | 6.2 | 5.7 | 6.0 | 5.6 |
| 45–54 years | 72.9 | 46.3 | 39.0 | 23.3 | 17.0 | 15.5 | 15.9 | 14.7 | 14.6 | 15.5 | 14.0 |
| 55–64 years | 183.1 | 131.8 | 95.3 | 56.8 | 42.2 | 39.4 | 38.8 | 37.9 | 36.3 | 38.4 | 35.5 |
| 65–74 years | 522.1 | 415.7 | 333.3 | 188.7 | 126.7 | 122.0 | 119.9 | 119.9 | 117.1 | 124.0 | 118.5 |
| 75–84 years | 1,462.2 | 1,441.1 | 1,183.1 | 740.1 | 466.2 | 457.8 | 455.6 | 443.4 | 441.5 | 467.5 | 458.2 |
| 85 years and over | 2,949.4 | 3,704.4 | 3,081.0 | 2,323.1 | 1,667.6 | 1,668.8 | 1,646.2 | 1,611.8 | 1,558.0 | 1,649.6 | 1,670.6 |
| White male | | | | | | | | | | | |
| All ages, age adjusted | 182.1 | 181.6 | 153.7 | 98.7 | 65.5 | 63.1 | 62.6 | 61.4 | 57.5 | 60.9 | 60.0 |
| All ages, crude | 100.5 | 102.7 | 93.5 | 63.1 | 46.9 | 48.5 | 49.0 | 48.7 | 47.2 | 50.0 | 49.7 |
| 45–54 years | 53.7 | 40.9 | 35.6 | 21.7 | 15.4 | 14.8 | 15.2 | 14.6 | 14.2 | 15.0 | 13.0 |
| 55–64 years | 182.2 | 139.0 | 119.9 | 64.0 | 45.7 | 44.6 | 43.4 | 42.2 | 40.8 | 43.2 | 39.6 |
| 65–74 years | 569.7 | 501.0 | 420.0 | 239.8 | 152.9 | 143.3 | 141.8 | 141.5 | 134.6 | 142.5 | 138.0 |
| 75–84 years | 1,556.3 | 1,564.8 | 1,361.6 | 852.7 | 539.2 | 502.0 | 498.9 | 479.5 | 464.0 | 491.3 | 485.1 |
| 85 years and over | 3,127.1 | 3,734.8 | 3,018.1 | 2,230.8 | 1,545.4 | 1,544.7 | 1,532.9 | 1,525.9 | 1,360.6 | 1,440.6 | 1,475.5 |
| Black male | | | | | | | | | | | |
| All ages, age adjusted | 228.8 | 238.5 | 206.4 | 142.0 | 102.2 | 96.4 | 93.1 | 88.4 | 86.1 | 91.2 | 87.4 |
| All ages, crude | 122.0 | 122.9 | 108.8 | 73.0 | 53.0 | 50.8 | 50.1 | 48.3 | 47.4 | 50.2 | 47.7 |
| 45–54 years | 211.9 | 166.1 | 136.1 | 82.1 | 68.4 | 64.0 | 62.1 | 59.8 | 55.6 | 58.9 | 51.0 |
| 55–64 years | 522.8 | 439.9 | 343.4 | 189.7 | 141.7 | 133.8 | 137.5 | 135.5 | 129.1 | 136.7 | 123.3 |
| 65–74 years | 783.6 | 899.2 | 780.1 | 472.3 | 326.9 | 290.9 | 291.9 | 274.3 | 255.4 | 270.4 | 264.0 |
| 75–84 years ⁴ | 1,504.9 | 1,475.2 | 1,445.7 | 1,066.3 | 721.5 | 699.2 | 652.1 | 598.6 | 620.1 | 656.6 | 634.9 |
| 85 years and over | --- | 2,700.0 | 1,963.1 | 1,873.2 | 1,421.5 | 1,386.3 | 1,325.9 | 1,278.1 | 1,233.1 | 1,305.6 | 1,343.1 |

See footnotes at end of table.

Table 38 (page 2 of 3). Death rates for cerebrovascular diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|----------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| American Indian or Alaska Native male ⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 66.4 | 44.3 | 44.6 | 40.3 | 40.8 | 34.0 | 36.0 | 40.7 |
| All ages, crude | --- | --- | --- | 23.1 | 16.0 | 20.1 | 18.7 | 18.5 | 16.6 | 17.6 | 19.9 |
| 45–54 years | --- | --- | --- | * | * | 28.4 | 19.9 | 0.0 | 17.6 | 18.6 | 17.0 |
| 55–64 years | --- | --- | --- | 72.0 | 39.8 | 45.7 | 42.9 | 49.4 | 53.5 | 56.6 | 37.4 |
| 65–74 years | --- | --- | --- | 170.5 | 120.3 | 153.1 | 139.1 | 112.5 | 109.8 | 116.3 | 144.8 |
| 75–84 years | --- | --- | --- | 523.9 | 325.9 | 290.1 | 319.4 | 324.0 | 257.8 | 273.0 | 353.6 |
| 85 years and over | --- | --- | --- | 1,384.7 | 949.8 | 748.8 | 550.4 | 707.9 | 450.2 | 476.7 | 510.5 |
| Asian or Pacific Islander male ⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 71.4 | 59.1 | 73.6 | 59.5 | 61.8 | 57.3 | 60.7 | 58.0 |
| All ages, crude | --- | --- | --- | 28.7 | 23.3 | 28.6 | 27.0 | 28.8 | 28.1 | 29.8 | 28.6 |
| 45–54 years | --- | --- | --- | 17.0 | 15.6 | 17.3 | 19.5 | 18.3 | 16.9 | 17.9 | 18.2 |
| 55–64 years | --- | --- | --- | 59.9 | 51.8 | 62.1 | 55.3 | 57.7 | 56.0 | 59.3 | 52.0 |
| 65–74 years | --- | --- | --- | 197.9 | 167.9 | 162.3 | 161.4 | 160.3 | 160.9 | 170.4 | 141.8 |
| 75–84 years | --- | --- | --- | 619.5 | 483.9 | 571.8 | 430.0 | 524.0 | 456.5 | 483.3 | 472.4 |
| 85 years and over | --- | --- | --- | 1,399.0 | 1,196.6 | 1,801.5 | 1,348.7 | 1,219.4 | 1,149.6 | 1,217.2 | 1,248.4 |
| Hispanic male ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 46.5 | 48.4 | 45.7 | 43.6 | 42.9 | 45.4 | 44.6 |
| All ages, crude | --- | --- | --- | --- | 15.6 | 17.1 | 16.8 | 16.6 | 17.3 | 18.3 | 17.8 |
| 45–54 years | --- | --- | --- | --- | 20.0 | 20.5 | 23.1 | 20.4 | 22.3 | 23.6 | 20.0 |
| 55–64 years | --- | --- | --- | --- | 49.2 | 46.1 | 50.7 | 52.6 | 52.9 | 56.0 | 45.5 |
| 65–74 years | --- | --- | --- | --- | 126.4 | 132.0 | 114.5 | 134.5 | 123.8 | 131.1 | 131.9 |
| 75–84 years | --- | --- | --- | --- | 356.6 | 349.2 | 347.5 | 304.2 | 295.5 | 312.9 | 332.5 |
| 85 years and over | --- | --- | --- | --- | 866.3 | 994.0 | 866.3 | 784.1 | 790.6 | 837.1 | 829.5 |
| White, non-Hispanic male ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 66.3 | 63.0 | 62.8 | 61.8 | 57.8 | 61.2 | 60.5 |
| All ages, crude | --- | --- | --- | --- | 50.6 | 52.2 | 52.9 | 53.0 | 51.2 | 54.2 | 54.2 |
| 45–54 years | --- | --- | --- | --- | 14.9 | 14.1 | 14.2 | 13.9 | 13.2 | 14.0 | 12.2 |
| 55–64 years | --- | --- | --- | --- | 45.1 | 43.8 | 42.0 | 41.0 | 39.4 | 41.7 | 38.7 |
| 65–74 years | --- | --- | --- | --- | 154.5 | 142.9 | 141.7 | 140.9 | 134.4 | 142.3 | 137.4 |
| 75–84 years | --- | --- | --- | --- | 547.3 | 506.3 | 503.9 | 485.2 | 470.1 | 497.7 | 490.7 |
| 85 years and over | --- | --- | --- | --- | 1,578.7 | 1,546.9 | 1,555.6 | 1,558.1 | 1,386.7 | 1,468.2 | 1,506.6 |
| White female | | | | | | | | | | | |
| All ages, age adjusted | 169.7 | 165.0 | 135.5 | 89.0 | 60.3 | 59.3 | 58.9 | 57.8 | 56.4 | 59.7 | 58.7 |
| All ages, crude | 103.3 | 110.1 | 109.8 | 88.6 | 71.6 | 75.8 | 76.1 | 75.5 | 74.7 | 79.1 | 78.7 |
| 45–54 years | 55.0 | 33.8 | 30.5 | 18.6 | 13.5 | 12.7 | 12.7 | 11.6 | 11.2 | 11.9 | 10.9 |
| 55–64 years | 156.9 | 103.0 | 78.1 | 48.6 | 35.8 | 33.5 | 33.3 | 31.8 | 31.3 | 33.1 | 29.7 |
| 65–74 years | 498.1 | 383.3 | 303.2 | 172.5 | 116.1 | 112.4 | 110.0 | 111.2 | 108.4 | 114.8 | 109.9 |
| 75–84 years | 1,471.3 | 1,444.7 | 1,176.8 | 728.8 | 456.5 | 448.6 | 445.7 | 436.4 | 433.0 | 458.5 | 450.3 |
| 85 years and over | 3,017.9 | 3,795.7 | 3,167.6 | 2,362.7 | 1,685.9 | 1,683.6 | 1,673.1 | 1,638.8 | 1,584.0 | 1,677.1 | 1,692.6 |
| Black female | | | | | | | | | | | |
| All ages, age adjusted | 238.4 | 232.5 | 189.3 | 119.6 | 84.0 | 80.9 | 78.8 | 76.0 | 75.2 | 79.6 | 78.1 |
| All ages, crude | 128.3 | 127.7 | 112.2 | 77.8 | 60.7 | 60.3 | 59.6 | 57.9 | 57.8 | 61.2 | 60.0 |
| 45–54 years | 248.9 | 166.2 | 119.4 | 61.8 | 44.1 | 36.4 | 38.6 | 38.6 | 39.9 | 42.2 | 36.0 |
| 55–64 years | 567.7 | 452.0 | 272.4 | 138.4 | 96.9 | 85.4 | 82.8 | 84.0 | 76.5 | 81.0 | 78.5 |
| 65–74 years | 754.4 | 830.5 | 673.5 | 361.7 | 236.7 | 221.2 | 216.0 | 204.6 | 197.0 | 208.6 | 200.3 |
| 75–84 years ⁴ | 1,496.7 | 1,413.1 | 1,338.3 | 917.5 | 595.0 | 581.9 | 585.7 | 539.1 | 558.8 | 591.7 | 582.1 |
| 85 years and over | --- | 2,578.9 | 2,210.5 | 1,891.6 | 1,495.2 | 1,564.7 | 1,436.2 | 1,429.7 | 1,396.6 | 1,478.7 | 1,559.0 |

See footnotes at end of table.

Table 38 (page 3 of 3). Death rates for cerebrovascular diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | Comparability modified 1998 ² | 1999 ³ |
|------------------------------------------------------|-------------------|-------------------|------|---------|---------|---------|---------|---------|---------|------------------------------------------------|-------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| American Indian or Alaska Native female ⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 51.2 | 38.4 | 40.3 | 42.0 | 38.5 | 39.9 | 42.2 | 38.5 |
| All ages, crude | --- | --- | --- | 22.0 | 19.3 | 23.8 | 25.4 | 24.3 | 25.4 | 26.9 | 25.6 |
| 45–54 years | --- | --- | --- | * | * | * | 24.6 | * | 18.8 | 19.9 | 14.4 |
| 55–64 years | --- | --- | --- | * | 40.7 | 43.5 | 29.7 | 49.4 | 47.5 | 50.3 | 47.1 |
| 65–74 years | --- | --- | --- | 128.3 | 100.5 | 112.3 | 127.7 | 109.0 | 126.4 | 133.8 | 92.5 |
| 75–84 years | --- | --- | --- | 404.2 | 282.0 | 321.7 | 351.1 | 319.7 | 324.6 | 343.7 | 310.3 |
| 85 years and over | --- | --- | --- | 1,095.5 | 776.2 | 697.3 | 700.0 | 570.0 | 618.1 | 654.4 | 675.4 |
| Asian or Pacific Islander female ⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 60.8 | 54.9 | 53.4 | 51.0 | 49.1 | 45.6 | 48.3 | 48.2 |
| All ages, crude | --- | --- | --- | 26.4 | 24.3 | 24.9 | 27.5 | 27.8 | 26.4 | 28.0 | 28.8 |
| 45–54 years | --- | --- | --- | 20.3 | 19.7 | 16.2 | 16.2 | 14.0 | 11.4 | 12.1 | 15.7 |
| 55–64 years | --- | --- | --- | 43.7 | 42.1 | 39.1 | 36.3 | 40.7 | 31.0 | 32.8 | 41.6 |
| 65–74 years | --- | --- | --- | 136.1 | 124.0 | 103.3 | 111.2 | 109.3 | 113.4 | 120.1 | 107.1 |
| 75–84 years | --- | --- | --- | 446.6 | 396.6 | 405.2 | 408.3 | 408.9 | 388.8 | 411.7 | 366.2 |
| 85 years and over | --- | --- | --- | 1,545.2 | 1,395.0 | 1,432.5 | 1,236.8 | 1,097.8 | 1,006.4 | 1,065.6 | 1,173.5 |
| Hispanic female ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 43.7 | 40.1 | 37.7 | 36.9 | 36.0 | 38.1 | 36.3 |
| All ages, crude | --- | --- | --- | --- | 20.1 | 20.0 | 19.6 | 19.6 | 19.6 | 20.8 | 19.9 |
| 45–54 years | --- | --- | --- | --- | 15.2 | 15.1 | 15.3 | 12.7 | 14.2 | 15.0 | 12.0 |
| 55–64 years | --- | --- | --- | --- | 38.5 | 35.6 | 35.2 | 32.4 | 30.1 | 31.9 | 29.2 |
| 65–74 years | --- | --- | --- | --- | 102.6 | 98.2 | 90.1 | 96.8 | 93.0 | 98.5 | 92.6 |
| 75–84 years | --- | --- | --- | --- | 308.5 | 287.0 | 283.9 | 286.3 | 279.1 | 295.5 | 280.0 |
| 85 years and over | --- | --- | --- | --- | 1,055.3 | 931.2 | 837.8 | 771.6 | 755.3 | 799.7 | 803.1 |
| White, non-Hispanic female ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 61.0 | 59.6 | 59.4 | 58.3 | 57.1 | 60.5 | 59.6 |
| All ages, crude | --- | --- | --- | --- | 77.2 | 81.9 | 82.6 | 82.4 | 81.9 | 86.7 | 86.7 |
| 45–54 years | --- | --- | --- | --- | 13.2 | 12.4 | 12.4 | 11.3 | 10.9 | 11.5 | 10.6 |
| 55–64 years | --- | --- | --- | --- | 35.7 | 32.9 | 32.7 | 31.4 | 31.1 | 32.9 | 29.5 |
| 65–74 years | --- | --- | --- | --- | 116.9 | 112.2 | 110.5 | 111.4 | 108.8 | 115.2 | 110.4 |
| 75–84 years | --- | --- | --- | --- | 461.9 | 452.0 | 449.5 | 440.9 | 438.3 | 464.1 | 457.1 |
| 85 years and over | --- | --- | --- | --- | 1,714.7 | 1,698.4 | 1,701.0 | 1,668.2 | 1,615.6 | 1,710.6 | 1,728.9 |

--- Data not available.

* Based on fewer than 20 deaths.

¹Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

²Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

³Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

⁴In 1950 rate is for the age group 75 years and over.

⁵Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

⁶Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

⁷Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. Rates for 1980–98 for Cerebrovascular diseases are based on ICD–9 codes 430–434, 436–438 that are more nearly comparable with ICD–10 codes for this cause, and replace trends based on ICD–9 430–438 shown in previous editions of *Health, United States*. For data years shown, code numbers for cause of death are based on the then current revision of the *International Classification of Diseases* (ICD). See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for Hispanic and non-Hispanic white for 1985 (and 1986–89, 1991 available electronically) were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. Grove RD and Hetzel AM. *Vital statistics rates in the United States, 1940–60*. Washington: Public Health Service, 1968; *Vital statistics of the United States, vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/dataawh/statab/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 39 (page 1 of 4). Death rates for malignant neoplasms, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| All persons | | | | | | | | | | | |
| All ages, age adjusted | 193.9 | 193.9 | 198.6 | 207.9 | 216.0 | 211.7 | 208.7 | 205.7 | 202.4 | 203.8 | 202.7 |
| All ages, crude | 139.8 | 149.2 | 162.8 | 183.9 | 203.2 | 204.9 | 203.4 | 201.6 | 200.3 | 201.7 | 201.6 |
| Under 1 year | 8.7 | 7.2 | 4.7 | 3.2 | 2.3 | 1.8 | 2.3 | 2.4 | 2.1 | 2.1 | 1.8 |
| 1–4 years | 11.7 | 10.9 | 7.5 | 4.5 | 3.5 | 3.1 | 2.7 | 2.9 | 2.4 | 2.4 | 2.8 |
| 5–14 years | 6.7 | 6.8 | 6.0 | 4.3 | 3.1 | 2.7 | 2.7 | 2.7 | 2.6 | 2.6 | 2.6 |
| 15–24 years | 8.6 | 8.3 | 8.3 | 6.3 | 4.9 | 4.6 | 4.5 | 4.5 | 4.6 | 4.6 | 4.6 |
| 25–34 years | 20.0 | 19.5 | 16.5 | 13.7 | 12.6 | 11.9 | 12.0 | 11.6 | 11.3 | 11.4 | 10.6 |
| 35–44 years | 62.7 | 59.7 | 59.5 | 48.6 | 43.3 | 40.3 | 39.3 | 38.9 | 38.2 | 38.5 | 37.3 |
| 45–54 years | 175.1 | 177.0 | 182.5 | 180.0 | 158.9 | 142.2 | 137.9 | 135.1 | 132.3 | 133.2 | 130.4 |
| 55–64 years | 390.7 | 396.8 | 423.0 | 436.1 | 449.6 | 416.0 | 406.5 | 395.7 | 383.8 | 386.4 | 380.8 |
| 65–74 years | 698.8 | 713.9 | 754.2 | 817.9 | 872.3 | 868.2 | 861.6 | 847.3 | 841.3 | 847.0 | 836.2 |
| 75–84 years | 1,153.3 | 1,127.4 | 1,169.2 | 1,232.3 | 1,348.5 | 1,364.8 | 1,351.5 | 1,335.2 | 1,326.3 | 1,335.3 | 1,340.0 |
| 85 years and over | 1,451.0 | 1,450.0 | 1,320.7 | 1,594.6 | 1,752.9 | 1,823.8 | 1,798.3 | 1,805.0 | 1,749.4 | 1,761.3 | 1,796.7 |
| Male | | | | | | | | | | | |
| All ages, age adjusted | 208.1 | 225.1 | 247.6 | 271.2 | 280.4 | 268.8 | 263.2 | 258.0 | 252.4 | 254.1 | 251.6 |
| All ages, crude | 142.9 | 162.5 | 182.1 | 205.3 | 221.3 | 219.5 | 217.2 | 214.6 | 213.6 | 215.1 | 214.5 |
| Under 1 year | 9.7 | 7.7 | 4.4 | 3.7 | 2.4 | 1.8 | 2.2 | 2.3 | 2.2 | 2.2 | 1.8 |
| 1–4 years | 12.5 | 12.4 | 8.3 | 5.2 | 3.7 | 3.6 | 3.1 | 3.1 | 2.4 | 2.4 | 2.9 |
| 5–14 years | 7.4 | 7.6 | 6.7 | 4.9 | 3.5 | 3.0 | 3.0 | 2.8 | 2.9 | 2.9 | 2.7 |
| 15–24 years | 9.7 | 10.2 | 10.4 | 7.8 | 5.7 | 5.5 | 5.1 | 5.2 | 5.4 | 5.4 | 5.3 |
| 25–34 years | 17.7 | 18.8 | 16.3 | 13.4 | 12.6 | 11.7 | 11.5 | 11.5 | 10.9 | 11.0 | 10.4 |
| 35–44 years | 45.6 | 48.9 | 53.0 | 44.0 | 38.5 | 36.5 | 35.6 | 34.5 | 34.4 | 34.6 | 33.6 |
| 45–54 years | 156.2 | 170.8 | 183.5 | 188.7 | 162.5 | 143.7 | 140.7 | 138.0 | 136.5 | 137.4 | 135.1 |
| 55–64 years | 413.1 | 459.9 | 511.8 | 520.8 | 532.9 | 480.5 | 469.1 | 453.4 | 441.1 | 444.1 | 437.9 |
| 65–74 years | 791.5 | 890.5 | 1,006.8 | 1,093.2 | 1,122.2 | 1,089.9 | 1,080.9 | 1,058.4 | 1,045.5 | 1,052.6 | 1,031.2 |
| 75–84 years | 1,332.6 | 1,389.4 | 1,588.3 | 1,790.5 | 1,914.4 | 1,842.3 | 1,802.7 | 1,770.2 | 1,745.6 | 1,757.5 | 1,746.2 |
| 85 years and over | 1,668.3 | 1,741.2 | 1,720.8 | 2,369.5 | 2,739.9 | 2,837.3 | 2,733.1 | 2,712.5 | 2,562.6 | 2,580.0 | 2,619.2 |
| Female | | | | | | | | | | | |
| All ages, age adjusted | 182.3 | 168.7 | 163.2 | 166.7 | 175.7 | 175.4 | 173.4 | 171.6 | 169.2 | 170.4 | 169.9 |
| All ages, crude | 136.8 | 136.4 | 144.4 | 163.6 | 186.0 | 191.0 | 190.2 | 189.2 | 187.7 | 189.0 | 189.4 |
| Under 1 year | 7.6 | 6.8 | 5.0 | 2.7 | 2.2 | 1.8 | 2.4 | 2.5 | 1.9 | 1.9 | 1.7 |
| 1–4 years | 10.8 | 9.3 | 6.7 | 3.7 | 3.2 | 2.6 | 2.3 | 2.6 | 2.4 | 2.4 | 2.6 |
| 5–14 years | 6.0 | 6.0 | 5.2 | 3.6 | 2.8 | 2.4 | 2.4 | 2.5 | 2.3 | 2.3 | 2.4 |
| 15–24 years | 7.6 | 6.5 | 6.2 | 4.8 | 4.1 | 3.6 | 3.8 | 3.7 | 3.7 | 3.7 | 3.8 |
| 25–34 years | 22.2 | 20.1 | 16.7 | 14.0 | 12.6 | 12.2 | 12.6 | 11.7 | 11.7 | 11.8 | 10.7 |
| 35–44 years | 79.3 | 70.0 | 65.6 | 53.1 | 48.1 | 44.0 | 42.9 | 43.1 | 42.1 | 42.4 | 41.1 |
| 45–54 years | 194.0 | 183.0 | 181.5 | 171.8 | 155.5 | 140.7 | 135.2 | 132.3 | 128.2 | 129.1 | 125.9 |
| 55–64 years | 368.2 | 337.7 | 343.2 | 361.7 | 375.2 | 357.5 | 349.6 | 343.2 | 331.6 | 333.9 | 328.7 |
| 65–74 years | 612.3 | 560.2 | 557.9 | 607.1 | 677.4 | 690.7 | 685.2 | 676.8 | 675.2 | 679.8 | 676.6 |
| 75–84 years | 1,000.7 | 924.1 | 891.9 | 903.1 | 1,010.3 | 1,061.5 | 1,060.0 | 1,050.6 | 1,048.6 | 1,055.7 | 1,068.1 |
| 85 years and over | 1,299.7 | 1,263.9 | 1,096.7 | 1,255.7 | 1,372.1 | 1,429.1 | 1,426.8 | 1,439.2 | 1,412.5 | 1,422.1 | 1,449.1 |
| White male | | | | | | | | | | | |
| All ages, age adjusted | 210.0 | 224.7 | 244.8 | 265.1 | 272.2 | 261.8 | 256.8 | 251.9 | 246.9 | 248.6 | 246.5 |
| All ages, crude | 147.2 | 166.1 | 185.1 | 208.7 | 227.7 | 228.1 | 225.8 | 223.3 | 223.0 | 224.5 | 224.2 |
| 25–34 years | 17.7 | 18.8 | 16.2 | 13.6 | 12.3 | 11.3 | 11.3 | 11.2 | 10.7 | 10.8 | 10.2 |
| 35–44 years | 44.5 | 46.3 | 50.1 | 41.1 | 35.8 | 34.2 | 33.5 | 32.3 | 32.6 | 32.8 | 32.0 |
| 45–54 years | 150.8 | 164.1 | 172.0 | 175.4 | 149.9 | 134.3 | 131.8 | 129.0 | 126.5 | 127.4 | 126.0 |
| 55–64 years | 409.4 | 450.9 | 498.1 | 497.4 | 508.2 | 460.0 | 448.9 | 432.4 | 422.4 | 425.3 | 419.9 |
| 65–74 years | 798.7 | 887.3 | 997.0 | 1,070.7 | 1,090.7 | 1,064.6 | 1,057.3 | 1,038.7 | 1,030.1 | 1,037.1 | 1,017.1 |
| 75–84 years | 1,367.6 | 1,413.7 | 1,592.7 | 1,779.7 | 1,883.2 | 1,810.9 | 1,771.0 | 1,746.1 | 1,722.4 | 1,734.1 | 1,723.2 |
| 85 years and over | 1,732.7 | 1,791.4 | 1,772.2 | 2,375.6 | 2,715.1 | 2,805.2 | 2,723.9 | 2,695.5 | 2,554.3 | 2,571.7 | 2,612.7 |
| Black male | | | | | | | | | | | |
| All ages, age adjusted | 178.9 | 227.6 | 291.9 | 353.4 | 397.9 | 372.8 | 365.3 | 354.7 | 343.1 | 345.4 | 340.5 |
| All ages, crude | 106.6 | 136.7 | 171.6 | 205.5 | 221.9 | 209.1 | 207.3 | 203.0 | 199.0 | 200.4 | 198.4 |
| 25–34 years | 18.0 | 18.4 | 18.8 | 14.1 | 15.7 | 15.2 | 14.0 | 14.5 | 12.9 | 13.0 | 11.9 |
| 35–44 years | 55.7 | 72.9 | 81.3 | 73.8 | 64.3 | 57.5 | 55.0 | 54.3 | 50.0 | 50.3 | 47.7 |
| 45–54 years | 211.7 | 244.7 | 311.2 | 333.0 | 302.6 | 250.7 | 242.7 | 235.3 | 241.0 | 242.6 | 232.3 |
| 55–64 years | 490.8 | 579.7 | 689.2 | 812.5 | 859.2 | 755.3 | 741.2 | 723.3 | 697.4 | 702.1 | 689.2 |
| 65–74 years | 636.5 | 938.5 | 1,168.9 | 1,417.2 | 1,613.9 | 1,509.6 | 1,473.2 | 1,412.4 | 1,344.7 | 1,353.8 | 1,316.4 |
| 75–84 years ⁴ | 853.5 | 1,053.3 | 1,624.8 | 2,029.6 | 2,478.3 | 2,426.8 | 2,421.8 | 2,298.4 | 2,284.5 | 2,300.0 | 2,302.5 |
| 85 years and over | --- | 1,155.2 | 1,387.0 | 2,393.9 | 3,238.3 | 3,338.2 | 3,209.7 | 3,306.2 | 3,050.5 | 3,071.2 | 3,098.1 |

See footnotes at end of table.

Table 39 (page 2 of 4). Death rates for malignant neoplasms, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|----------------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| American Indian or Alaska Native male⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 140.5 | 145.8 | 153.7 | 154.5 | 163.3 | 155.0 | 156.1 | 150.9 |
| All ages, crude | --- | --- | --- | 58.1 | 61.4 | 74.2 | 75.9 | 84.7 | 80.6 | 81.1 | 80.0 |
| 25–34 years | --- | --- | --- | * | * | * | * | * | * | * | * |
| 35–44 years | --- | --- | --- | * | 22.8 | 16.0 | 18.4 | 25.0 | 26.8 | 27.0 | 19.6 |
| 45–54 years | --- | --- | --- | 86.9 | 86.9 | 88.0 | 76.0 | 109.3 | 90.6 | 91.2 | 91.4 |
| 55–64 years | --- | --- | --- | 213.4 | 246.2 | 300.3 | 325.5 | 336.2 | 286.7 | 288.6 | 294.5 |
| 65–74 years | --- | --- | --- | 613.0 | 530.6 | 670.4 | 680.1 | 761.6 | 711.3 | 716.1 | 716.5 |
| 75–84 years | --- | --- | --- | 936.4 | 1,038.4 | 1,111.9 | 1,036.6 | 1,041.1 | 1,070.7 | 1,078.0 | 980.6 |
| 85 years and over | --- | --- | --- | 1,471.2 | 1,654.4 | 1,081.5 | 1,284.2 | 1,011.3 | 1,067.0 | 1,074.3 | 1,067.5 |
| Asian or Pacific Islander male⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 165.2 | 172.5 | 182.7 | 163.2 | 158.9 | 155.5 | 156.6 | 154.2 |
| All ages, crude | --- | --- | --- | 81.9 | 82.7 | 87.1 | 87.1 | 87.0 | 89.0 | 89.6 | 89.2 |
| 25–34 years | --- | --- | --- | 6.3 | 9.2 | 8.8 | 7.8 | 9.4 | 9.4 | 9.5 | 10.2 |
| 35–44 years | --- | --- | --- | 29.4 | 27.7 | 27.4 | 27.4 | 26.1 | 26.0 | 26.2 | 26.6 |
| 45–54 years | --- | --- | --- | 108.2 | 92.6 | 86.6 | 85.7 | 89.0 | 91.5 | 92.1 | 84.4 |
| 55–64 years | --- | --- | --- | 298.5 | 274.6 | 255.4 | 247.5 | 261.6 | 246.5 | 248.2 | 243.5 |
| 65–74 years | --- | --- | --- | 581.2 | 687.2 | 640.6 | 663.6 | 596.2 | 630.8 | 635.1 | 609.3 |
| 75–84 years | --- | --- | --- | 1,147.6 | 1,229.9 | 1,278.9 | 1,199.8 | 1,160.3 | 1,095.3 | 1,102.7 | 1,085.4 |
| 85 years and over | --- | --- | --- | 1,798.7 | 1,837.0 | 2,712.8 | 1,668.4 | 1,674.0 | 1,556.0 | 1,566.6 | 1,657.4 |
| Hispanic male⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 174.7 | 172.5 | 161.0 | 157.7 | 157.3 | 158.4 | 151.4 |
| All ages, crude | --- | --- | --- | --- | 65.5 | 68.9 | 65.8 | 65.4 | 68.7 | 69.2 | 67.7 |
| 25–34 years | --- | --- | --- | --- | 8.0 | 9.2 | 8.0 | 8.8 | 8.5 | 8.6 | 8.2 |
| 35–44 years | --- | --- | --- | --- | 22.5 | 25.4 | 22.0 | 22.5 | 21.8 | 21.9 | 20.8 |
| 45–54 years | --- | --- | --- | --- | 96.6 | 85.8 | 81.6 | 87.3 | 87.7 | 88.3 | 86.9 |
| 55–64 years | --- | --- | --- | --- | 294.0 | 276.8 | 262.2 | 256.0 | 258.7 | 260.5 | 264.7 |
| 65–74 years | --- | --- | --- | --- | 655.5 | 667.1 | 647.9 | 627.2 | 666.2 | 670.7 | 626.7 |
| 75–84 years | --- | --- | --- | --- | 1,233.4 | 1,272.1 | 1,178.3 | 1,123.5 | 1,087.5 | 1,094.9 | 1,054.0 |
| 85 years and over | --- | --- | --- | --- | 2,019.4 | 1,858.7 | 1,637.8 | 1,658.8 | 1,551.0 | 1,561.5 | 1,419.8 |
| White, non-Hispanic male⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 276.7 | 264.9 | 260.8 | 256.2 | 251.2 | 252.9 | 251.4 |
| All ages, crude | --- | --- | --- | --- | 246.2 | 247.1 | 246.2 | 244.7 | 243.9 | 245.6 | 246.3 |
| 25–34 years | --- | --- | --- | --- | 12.8 | 11.4 | 11.8 | 11.5 | 10.9 | 11.0 | 10.5 |
| 35–44 years | --- | --- | --- | --- | 36.8 | 34.7 | 34.4 | 33.1 | 33.7 | 33.9 | 33.2 |
| 45–54 years | --- | --- | --- | --- | 153.9 | 137.0 | 134.9 | 131.9 | 129.1 | 130.0 | 128.8 |
| 55–64 years | --- | --- | --- | --- | 520.6 | 469.9 | 458.6 | 443.3 | 432.2 | 435.1 | 429.6 |
| 65–74 years | --- | --- | --- | --- | 1,109.0 | 1,081.1 | 1,073.6 | 1,057.8 | 1,047.5 | 1,054.6 | 1,037.6 |
| 75–84 years | --- | --- | --- | --- | 1,906.6 | 1,825.6 | 1,791.6 | 1,765.7 | 1,745.8 | 1,757.7 | 1,750.2 |
| 85 years and over | --- | --- | --- | --- | 2,744.4 | 2,814.6 | 2,764.3 | 2,738.3 | 2,599.8 | 2,617.5 | 2,670.7 |
| White female | | | | | | | | | | | |
| All ages, age adjusted | 182.0 | 167.7 | 162.5 | 165.2 | 174.0 | 173.7 | 172.1 | 170.0 | 167.7 | 168.8 | 168.6 |
| All ages, crude | 139.9 | 139.8 | 149.4 | 170.3 | 196.1 | 202.4 | 201.8 | 200.4 | 199.1 | 200.5 | 201.1 |
| 25–34 years | 20.9 | 18.8 | 16.3 | 13.5 | 11.9 | 11.5 | 12.1 | 11.2 | 11.2 | 11.3 | 10.5 |
| 35–44 years | 74.5 | 66.6 | 62.4 | 50.9 | 46.2 | 42.0 | 40.5 | 40.6 | 39.3 | 39.6 | 38.7 |
| 45–54 years | 185.8 | 175.7 | 177.3 | 166.4 | 150.9 | 136.1 | 131.0 | 128.4 | 123.3 | 124.1 | 121.9 |
| 55–64 years | 362.5 | 329.0 | 338.6 | 355.5 | 368.5 | 352.6 | 347.3 | 339.6 | 326.5 | 328.7 | 324.3 |
| 65–74 years | 616.5 | 562.1 | 554.7 | 605.2 | 675.1 | 689.6 | 684.6 | 674.6 | 675.7 | 680.3 | 677.3 |
| 75–84 years | 1,026.6 | 939.3 | 903.5 | 905.4 | 1,011.8 | 1,060.2 | 1,059.9 | 1,049.7 | 1,051.1 | 1,058.2 | 1,067.6 |
| 85 years and over | 1,348.3 | 1,304.9 | 1,126.6 | 1,266.8 | 1,372.3 | 1,428.2 | 1,430.1 | 1,435.8 | 1,415.1 | 1,424.7 | 1,453.0 |

See footnotes at end of table.

Table 39 (page 3 of 4). Death rates for malignant neoplasms, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> <i>1999³</i> | |
|---------------------------------------------------------|----------------------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------------------------------------------------------------------|---------|
| Black female | Deaths per 100,000 resident population | | | | | | | | | | |
| All ages, age adjusted | 174.1 | 174.3 | 173.4 | 189.5 | 205.9 | 206.0 | 202.3 | 204.4 | 200.0 | 201.4 | 200.2 |
| All ages, crude | 111.8 | 113.8 | 117.3 | 136.5 | 156.1 | 159.1 | 157.9 | 160.5 | 158.5 | 159.6 | 159.0 |
| 25–34 years | 34.3 | 31.0 | 20.9 | 18.3 | 18.7 | 16.8 | 16.4 | 16.2 | 15.6 | 15.7 | 13.4 |
| 35–44 years | 119.8 | 102.4 | 94.6 | 73.5 | 67.4 | 62.2 | 62.8 | 62.9 | 64.1 | 64.5 | 60.5 |
| 45–54 years | 277.0 | 254.8 | 228.6 | 230.2 | 209.9 | 192.7 | 182.8 | 180.6 | 180.9 | 182.1 | 171.9 |
| 55–64 years | 484.6 | 442.7 | 404.8 | 450.4 | 482.4 | 443.6 | 422.2 | 426.4 | 419.9 | 422.8 | 408.9 |
| 65–74 years | 477.3 | 541.6 | 615.8 | 662.4 | 773.2 | 799.6 | 790.6 | 789.7 | 770.2 | 775.4 | 767.3 |
| 75–84 years ⁴ | 605.3 | 696.3 | 763.3 | 923.9 | 1,059.9 | 1,154.1 | 1,150.9 | 1,166.5 | 1,138.3 | 1,146.0 | 1,194.4 |
| 85 years and over | --- | 728.9 | 791.5 | 1,159.9 | 1,431.3 | 1,490.3 | 1,507.2 | 1,602.3 | 1,513.5 | 1,523.8 | 1,560.4 |
| American Indian or Alaska Native female ⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 94.0 | 106.9 | 110.9 | 119.3 | 108.6 | 111.3 | 112.1 | 109.1 |
| All ages, crude | --- | --- | --- | 50.4 | 62.1 | 69.9 | 77.1 | 71.8 | 74.9 | 75.4 | 73.3 |
| 25–34 years | --- | --- | --- | * | * | 11.1 | * | 11.0 | * | * | * |
| 35–44 years | --- | --- | --- | 36.9 | 31.0 | 33.5 | 38.5 | 36.8 | 33.4 | 33.6 | 27.7 |
| 45–54 years | --- | --- | --- | 96.9 | 104.5 | 85.2 | 111.2 | 88.3 | 94.9 | 95.5 | 78.6 |
| 55–64 years | --- | --- | --- | 198.4 | 213.3 | 223.2 | 249.2 | 245.5 | 255.8 | 257.5 | 256.0 |
| 65–74 years | --- | --- | --- | 350.8 | 438.9 | 427.7 | 487.3 | 467.5 | 481.1 | 484.4 | 488.4 |
| 75–84 years | --- | --- | --- | 446.4 | 554.3 | 723.9 | 721.4 | 613.4 | 599.9 | 604.0 | 671.9 |
| 85 years and over | --- | --- | --- | 786.5 | 843.7 | 736.6 | 638.0 | 561.9 | 649.0 | 653.4 | 495.8 |
| Asian or Pacific Islander female ⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 93.0 | 103.0 | 114.5 | 103.4 | 103.7 | 100.9 | 101.6 | 104.0 |
| All ages, crude | --- | --- | --- | 54.1 | 60.5 | 71.5 | 69.7 | 71.1 | 71.0 | 71.5 | 74.3 |
| 25–34 years | --- | --- | --- | 9.5 | 7.3 | 10.6 | 9.6 | 7.0 | 9.3 | 9.4 | 7.5 |
| 35–44 years | --- | --- | --- | 38.7 | 29.8 | 28.6 | 29.9 | 31.5 | 27.7 | 27.9 | 28.0 |
| 45–54 years | --- | --- | --- | 99.8 | 93.9 | 98.0 | 88.7 | 81.1 | 83.3 | 83.9 | 83.1 |
| 55–64 years | --- | --- | --- | 174.7 | 196.2 | 211.4 | 179.6 | 176.7 | 186.8 | 188.1 | 195.2 |
| 65–74 years | --- | --- | --- | 301.9 | 346.2 | 351.2 | 347.8 | 376.4 | 362.7 | 365.2 | 379.3 |
| 75–84 years | --- | --- | --- | 522.1 | 641.4 | 722.6 | 703.6 | 662.1 | 639.9 | 644.3 | 670.6 |
| 85 years and over | --- | --- | --- | 800.0 | 971.7 | 1,307.7 | 917.8 | 1,014.0 | 908.8 | 915.0 | 919.5 |
| Hispanic female ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 111.9 | 106.1 | 106.1 | 103.8 | 100.5 | 101.2 | 101.4 |
| All ages, crude | --- | --- | --- | --- | 60.7 | 60.5 | 62.1 | 61.4 | 60.4 | 60.8 | 61.4 |
| 25–34 years | --- | --- | --- | --- | 9.7 | 9.2 | 10.3 | 10.3 | 9.6 | 9.7 | 9.6 |
| 35–44 years | --- | --- | --- | --- | 34.8 | 31.2 | 30.0 | 30.5 | 29.8 | 30.0 | 30.1 |
| 45–54 years | --- | --- | --- | --- | 100.5 | 89.7 | 85.3 | 84.7 | 86.7 | 87.3 | 85.8 |
| 55–64 years | --- | --- | --- | --- | 205.4 | 197.6 | 202.4 | 201.6 | 189.9 | 191.2 | 180.5 |
| 65–74 years | --- | --- | --- | --- | 404.8 | 382.3 | 405.3 | 388.2 | 390.4 | 393.1 | 381.4 |
| 75–84 years | --- | --- | --- | --- | 663.0 | 659.6 | 637.8 | 622.4 | 588.5 | 592.5 | 626.8 |
| 85 years and over | --- | --- | --- | --- | 1,022.7 | 938.2 | 913.9 | 888.6 | 835.2 | 840.9 | 869.9 |

See footnotes at end of table.

Table 39 (page 4 of 4). Death rates for malignant neoplasms, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | Comparability modified 1998 ² | 1999 ³ |
|-----------------------------------------|----------------------------------------|-------------------|------|------|---------|---------|---------|---------|---------|------------------------------------------------|-------------------|
| White, non-Hispanic female ⁷ | Deaths per 100,000 resident population | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 177.5 | 176.6 | 175.3 | 173.1 | 171.1 | 172.3 | 172.1 |
| All ages, crude | --- | --- | --- | --- | 210.6 | 218.4 | 218.3 | 217.3 | 216.9 | 218.4 | 219.7 |
| 25–34 years | --- | --- | --- | --- | 11.9 | 11.7 | 12.2 | 11.2 | 11.3 | 11.4 | 10.4 |
| 35–44 years | --- | --- | --- | --- | 47.0 | 42.7 | 41.2 | 41.4 | 40.1 | 40.4 | 39.4 |
| 45–54 years | --- | --- | --- | --- | 154.9 | 139.3 | 133.9 | 131.2 | 125.7 | 126.6 | 124.5 |
| 55–64 years | --- | --- | --- | --- | 379.5 | 362.7 | 356.6 | 348.5 | 335.7 | 338.0 | 334.7 |
| 65–74 years | --- | --- | --- | --- | 688.5 | 703.1 | 697.9 | 688.7 | 691.2 | 695.9 | 694.6 |
| 75–84 years | --- | --- | --- | --- | 1,027.2 | 1,070.5 | 1,075.3 | 1,063.9 | 1,068.3 | 1,075.6 | 1,084.4 |
| 85 years and over | --- | --- | --- | --- | 1,385.7 | 1,438.4 | 1,448.8 | 1,452.5 | 1,435.7 | 1,445.5 | 1,474.8 |

--- Data not available.

* Based on fewer than 20 deaths.

¹Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

²Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

³Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

⁴In 1950 rate is for the age group 75 years and over.

⁵Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

⁶Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

⁷Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. For data years shown, code numbers for cause of death are based on the then current revision of the *International Classification of Diseases* (ICD). See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for black male in 1950, all persons in 1970, and for Hispanic and non-Hispanic white for 1985 (and 1986–89, 1991 available electronically) were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. Grove RD and Hetzel AM. *Vital statistics rates in the United States, 1940–60*. Washington: Public Health Service, 1968; *Vital statistics of the United States, vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/dataawh/statab/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 40 (page 1 of 3). Death rates for malignant neoplasms of trachea, bronchus, and lung, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|-------------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| All persons | | | | | | | | | | | |
| All ages, age adjusted | 15.0 | 24.1 | 37.1 | 49.9 | 59.3 | 58.9 | 58.4 | 58.1 | 57.6 | 56.7 | 56.0 |
| All ages, crude | 12.2 | 20.3 | 32.1 | 45.8 | 56.8 | 57.5 | 57.3 | 57.3 | 57.2 | 56.3 | 55.8 |
| Under 25 years | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25–34 years | 0.8 | 1.0 | 0.9 | 0.6 | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.5 |
| 35–44 years | 4.5 | 6.8 | 11.0 | 9.2 | 6.8 | 6.0 | 6.2 | 6.2 | 6.1 | 6.0 | 6.1 |
| 45–54 years | 20.4 | 29.6 | 43.4 | 54.1 | 46.8 | 38.0 | 36.8 | 34.6 | 33.3 | 32.8 | 31.9 |
| 55–64 years | 48.7 | 75.3 | 109.1 | 138.2 | 160.6 | 142.9 | 138.7 | 134.3 | 131.4 | 129.3 | 125.5 |
| 65–74 years | 59.7 | 108.1 | 164.5 | 233.3 | 288.4 | 297.1 | 296.1 | 295.7 | 296.7 | 291.9 | 284.6 |
| 75–84 years | 55.8 | 91.5 | 163.2 | 240.5 | 333.3 | 361.4 | 364.4 | 368.5 | 367.7 | 361.7 | 364.4 |
| 85 years and over | 42.3 | 65.6 | 101.7 | 176.0 | 242.5 | 284.0 | 280.9 | 297.6 | 289.9 | 285.2 | 295.5 |
| Male | | | | | | | | | | | |
| All ages, age adjusted | 24.6 | 43.6 | 67.5 | 85.2 | 91.1 | 84.7 | 82.9 | 81.6 | 79.9 | 78.6 | 77.0 |
| All ages, crude | 19.9 | 35.4 | 53.4 | 68.6 | 75.1 | 71.6 | 70.6 | 69.7 | 69.3 | 68.2 | 67.1 |
| Under 25 years | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | * | * | 0.0 | 0.0 | * |
| 25–34 years | 1.1 | 1.4 | 1.3 | 0.8 | 0.9 | 0.8 | 0.7 | 0.6 | 0.6 | 0.6 | 0.5 |
| 35–44 years | 7.1 | 10.5 | 16.1 | 11.9 | 8.5 | 7.1 | 7.3 | 7.1 | 7.0 | 6.9 | 6.6 |
| 45–54 years | 35.0 | 50.6 | 67.5 | 76.0 | 59.7 | 47.0 | 45.8 | 42.7 | 40.8 | 40.1 | 39.2 |
| 55–64 years | 83.8 | 139.3 | 189.7 | 213.6 | 222.9 | 187.4 | 181.4 | 173.7 | 168.4 | 165.7 | 161.5 |
| 65–74 years | 98.7 | 204.3 | 320.8 | 403.9 | 430.4 | 417.0 | 409.3 | 404.0 | 401.7 | 395.2 | 381.6 |
| 75–84 years | 82.6 | 167.1 | 330.8 | 488.8 | 572.9 | 552.1 | 547.2 | 543.0 | 534.7 | 526.0 | 521.4 |
| 85 years and over | 62.5 | 107.7 | 194.0 | 368.1 | 513.2 | 543.8 | 520.7 | 543.8 | 512.4 | 504.0 | 509.2 |
| Female | | | | | | | | | | | |
| All ages, age adjusted | 5.8 | 7.5 | 13.1 | 24.4 | 37.1 | 40.7 | 40.9 | 41.4 | 41.5 | 40.8 | 40.8 |
| All ages, crude | 4.5 | 6.4 | 11.9 | 24.3 | 39.4 | 44.1 | 44.6 | 45.4 | 45.7 | 45.0 | 45.0 |
| Under 25 years | 0.1 | 0.0 | 0.0 | * | * | * | * | * | * | * | * |
| 25–34 years | 0.5 | 5.4 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 | 0.4 |
| 35–44 years | 1.9 | 3.2 | 6.1 | 6.5 | 5.2 | 5.0 | 5.1 | 5.4 | 5.3 | 5.2 | 5.5 |
| 45–54 years | 5.8 | 9.2 | 21.0 | 33.7 | 34.5 | 29.4 | 28.2 | 26.9 | 26.0 | 25.6 | 25.0 |
| 55–64 years | 13.6 | 15.4 | 36.8 | 72.0 | 105.0 | 102.6 | 99.9 | 98.5 | 97.6 | 96.0 | 92.6 |
| 65–74 years | 23.3 | 24.4 | 43.1 | 102.7 | 177.6 | 201.1 | 204.9 | 208.2 | 211.3 | 207.9 | 205.2 |
| 75–84 years | 32.9 | 32.8 | 52.4 | 94.1 | 190.1 | 240.3 | 246.4 | 254.3 | 257.2 | 253.0 | 259.3 |
| 85 years and over | 28.2 | 38.8 | 50.0 | 91.9 | 138.1 | 182.8 | 185.6 | 198.4 | 197.8 | 194.6 | 205.3 |
| White male | | | | | | | | | | | |
| All ages, age adjusted | 25.1 | 43.6 | 67.1 | 83.8 | 89.0 | 82.9 | 81.4 | 80.2 | 78.6 | 77.3 | 75.8 |
| All ages, crude | 20.8 | 36.4 | 54.6 | 70.2 | 77.8 | 74.9 | 73.9 | 73.1 | 72.7 | 71.5 | 70.6 |
| 45–54 years | 35.1 | 49.2 | 63.3 | 70.9 | 55.2 | 43.7 | 42.7 | 39.6 | 37.5 | 36.9 | 35.9 |
| 55–64 years | 85.4 | 139.2 | 186.8 | 205.6 | 213.7 | 180.4 | 174.4 | 167.4 | 162.5 | 159.9 | 156.5 |
| 65–74 years | 101.5 | 207.5 | 325.0 | 401.0 | 422.1 | 411.3 | 404.9 | 400.4 | 399.2 | 392.7 | 378.9 |
| 75–84 years | 85.5 | 170.4 | 336.7 | 493.5 | 572.2 | 548.8 | 543.7 | 540.1 | 531.7 | 523.0 | 518.0 |
| 85 years and over | 67.4 | 109.4 | 199.6 | 374.1 | 516.3 | 542.4 | 524.5 | 549.1 | 516.6 | 508.2 | 515.0 |
| Black male | | | | | | | | | | | |
| All ages, age adjusted | 17.8 | 42.6 | 75.4 | 107.6 | 125.4 | 114.8 | 111.5 | 108.3 | 105.2 | 103.5 | 101.8 |
| All ages, crude | 12.1 | 28.1 | 47.7 | 66.6 | 73.7 | 67.0 | 65.8 | 64.1 | 63.0 | 62.0 | 61.2 |
| 45–54 years | 34.4 | 68.4 | 115.4 | 133.8 | 114.9 | 87.6 | 85.3 | 79.4 | 78.8 | 77.5 | 76.2 |
| 55–64 years | 68.3 | 146.8 | 234.3 | 321.1 | 358.6 | 295.3 | 287.0 | 270.1 | 263.2 | 258.9 | 248.5 |
| 65–74 years | 53.8 | 168.3 | 300.5 | 472.3 | 585.4 | 547.9 | 520.8 | 507.9 | 487.5 | 479.6 | 465.6 |
| 75–84 years ⁴ | 36.2 | 107.3 | 271.6 | 472.9 | 645.4 | 660.8 | 660.8 | 660.1 | 647.5 | 636.9 | 645.1 |
| 85 years and over | --- | 82.8 | 137.0 | 311.3 | 499.5 | 573.2 | 544.7 | 553.8 | 533.1 | 524.4 | 532.5 |
| American Indian or Alaska Native male ⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 31.7 | 47.5 | 49.5 | 50.5 | 52.0 | 54.1 | 53.2 | 45.5 |
| All ages, crude | --- | --- | --- | 14.2 | 20.0 | 23.9 | 25.6 | 26.5 | 27.8 | 27.3 | 24.0 |
| 45–54 years | --- | --- | --- | * | 26.6 | 26.5 | 24.4 | 32.1 | 30.2 | 29.7 | 20.2 |
| 55–64 years | --- | --- | --- | 72.0 | 97.8 | 106.1 | 139.7 | 124.9 | 109.9 | 108.1 | 113.5 |
| 65–74 years | --- | --- | --- | 202.8 | 194.3 | 256.0 | 267.9 | 268.4 | 294.5 | 289.7 | 267.4 |
| 75–84 years | --- | --- | --- | * | 356.2 | 338.4 | 308.2 | 339.9 | 376.7 | 370.6 | 259.3 |
| 85 years and over | --- | --- | --- | * | * | * | * | * | * | * | * |

See footnotes at end of table.

Table 40 (page 2 of 3). Death rates for malignant neoplasms of trachea, bronchus, and lung, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|------------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| Asian or Pacific Islander male ⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 43.3 | 44.2 | 45.3 | 43.0 | 41.5 | 42.3 | 41.6 | 40.3 |
| All ages, crude | --- | --- | --- | 22.1 | 20.7 | 21.5 | 22.4 | 22.4 | 23.5 | 23.1 | 22.8 |
| 45–54 years | --- | --- | --- | 33.3 | 18.8 | 19.6 | 15.4 | 17.4 | 17.3 | 17.0 | 16.0 |
| 55–64 years | --- | --- | --- | 94.4 | 74.4 | 67.1 | 69.8 | 72.8 | 66.6 | 65.5 | 59.5 |
| 65–74 years | --- | --- | --- | 174.3 | 215.8 | 191.9 | 206.9 | 194.5 | 215.3 | 211.8 | 210.0 |
| 75–84 years | --- | --- | --- | 301.3 | 307.5 | 324.9 | 341.1 | 300.4 | 318.4 | 313.2 | 320.1 |
| 85 years and over | --- | --- | --- | * | 421.3 | 572.2 | 343.0 | 367.1 | 332.9 | 327.5 | 265.5 |
| Hispanic male ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 44.1 | 40.2 | 37.1 | 37.0 | 35.6 | 35.0 | 35.2 |
| All ages, crude | --- | --- | --- | --- | 16.2 | 15.6 | 14.8 | 14.6 | 15.0 | 14.8 | 15.1 |
| 45–54 years | --- | --- | --- | --- | 21.5 | 17.7 | 18.3 | 17.3 | 15.7 | 15.4 | 14.6 |
| 55–64 years | --- | --- | --- | --- | 80.7 | 68.7 | 66.3 | 58.9 | 58.9 | 57.9 | 67.2 |
| 65–74 years | --- | --- | --- | --- | 195.5 | 183.5 | 175.7 | 176.1 | 173.4 | 170.6 | 164.3 |
| 75–84 years | --- | --- | --- | --- | 313.4 | 303.5 | 277.9 | 274.0 | 271.4 | 267.0 | 265.8 |
| 85 years and over | --- | --- | --- | --- | 420.7 | 352.5 | 278.9 | 332.9 | 264.1 | 259.8 | 264.4 |
| White, non-Hispanic male ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 91.1 | 84.7 | 83.4 | 82.6 | 81.0 | 79.7 | 78.2 |
| All ages, crude | --- | --- | --- | --- | 84.7 | 81.8 | 81.4 | 81.2 | 80.8 | 79.5 | 78.5 |
| 45–54 years | --- | --- | --- | --- | 57.8 | 45.4 | 44.4 | 41.4 | 39.3 | 38.7 | 37.7 |
| 55–64 years | --- | --- | --- | --- | 221.0 | 186.8 | 180.7 | 175.0 | 169.6 | 166.8 | 162.9 |
| 65–74 years | --- | --- | --- | --- | 431.4 | 420.3 | 414.9 | 412.1 | 411.6 | 404.9 | 391.3 |
| 75–84 years | --- | --- | --- | --- | 580.4 | 554.9 | 552.1 | 549.5 | 542.6 | 533.8 | 528.8 |
| 85 years and over | --- | --- | --- | --- | 520.9 | 543.4 | 533.1 | 557.7 | 528.7 | 520.1 | 526.9 |
| White female | | | | | | | | | | | |
| All ages, age adjusted | 5.9 | 6.8 | 13.1 | 24.5 | 37.6 | 41.4 | 41.8 | 42.2 | 42.3 | 41.6 | 41.5 |
| All ages, crude | 4.7 | 5.9 | 12.3 | 25.6 | 42.4 | 48.0 | 48.6 | 49.3 | 49.7 | 48.9 | 48.9 |
| 45–54 years | 5.7 | 9.0 | 20.9 | 33.0 | 34.6 | 29.5 | 28.4 | 26.8 | 25.8 | 25.4 | 24.7 |
| 55–64 years | 13.7 | 15.1 | 37.2 | 71.9 | 105.7 | 104.7 | 102.9 | 100.9 | 99.7 | 98.1 | 94.9 |
| 65–74 years | 23.7 | 24.8 | 42.9 | 104.6 | 181.3 | 205.0 | 210.0 | 213.2 | 216.6 | 213.1 | 211.0 |
| 75–84 years | 34.0 | 32.7 | 52.6 | 95.2 | 194.6 | 246.1 | 251.5 | 259.7 | 263.1 | 258.8 | 263.6 |
| 85 years and over | 29.3 | 39.1 | 50.6 | 92.4 | 138.3 | 184.0 | 188.2 | 200.5 | 200.3 | 197.0 | 207.4 |
| Black female | | | | | | | | | | | |
| All ages, age adjusted | 4.5 | 6.8 | 13.7 | 24.8 | 36.8 | 39.1 | 39.3 | 40.7 | 40.9 | 40.2 | 40.5 |
| All ages, crude | 2.8 | 4.3 | 9.4 | 18.3 | 28.1 | 30.2 | 30.5 | 31.9 | 32.2 | 31.7 | 31.8 |
| 45–54 years | 7.5 | 11.3 | 23.9 | 43.4 | 41.3 | 34.9 | 33.0 | 33.6 | 33.4 | 32.9 | 32.5 |
| 55–64 years | 12.9 | 17.9 | 33.5 | 79.9 | 117.9 | 106.5 | 99.3 | 101.8 | 102.6 | 100.9 | 93.9 |
| 65–74 years | 14.0 | 18.1 | 46.1 | 88.0 | 164.3 | 195.3 | 196.1 | 200.5 | 202.5 | 199.2 | 190.9 |
| 75–84 years ⁴ | * | 31.3 | 49.1 | 79.4 | 148.1 | 188.6 | 209.3 | 220.1 | 222.4 | 218.8 | 245.6 |
| 85 years and over | --- | 34.2 | 44.8 | 85.8 | 134.9 | 163.7 | 162.1 | 184.2 | 176.6 | 173.7 | 190.5 |
| American Indian or Alaska Native female ⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 11.7 | 19.3 | 24.7 | 24.6 | 24.1 | 26.1 | 25.7 | 26.9 |
| All ages, crude | --- | --- | --- | 6.0 | 11.2 | 15.0 | 15.2 | 15.2 | 16.9 | 16.6 | 17.5 |
| 45–54 years | --- | --- | --- | * | 22.9 | * | * | * | 18.0 | 17.7 | * |
| 55–64 years | --- | --- | --- | * | 53.7 | 47.8 | 62.3 | 65.8 | 62.0 | 61.0 | 80.2 |
| 65–74 years | --- | --- | --- | * | 78.5 | 131.8 | 102.1 | 130.0 | 157.0 | 154.4 | 148.7 |
| 75–84 years | --- | --- | --- | * | 111.8 | 185.0 | 192.9 | 141.3 | 130.6 | 128.5 | 163.7 |
| 85 years and over | --- | --- | --- | * | * | * | * | * | * | * | * |

See footnotes at end of table.

Table 40 (page 3 of 3). Death rates for malignant neoplasms of trachea, bronchus, and lung, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | Comparability modified 1998 ² | 1999 ³ |
|--------------------------------------------------|-------------------|-------------------|------|----------------------------------------|-------|-------|-------|-------|-------|------------------------------------------------|-------------------|
| Asian or Pacific Islander female ⁶ | | | | Deaths per 100,000 resident population | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 15.4 | 18.9 | 22.9 | 18.9 | 19.4 | 19.5 | 19.2 | 19.6 |
| All ages, crude | --- | --- | --- | 8.4 | 10.5 | 13.4 | 12.0 | 12.9 | 13.2 | 13.0 | 13.5 |
| 45–54 years | --- | --- | --- | 13.5 | 11.3 | 12.1 | 11.1 | 9.8 | 9.9 | 9.7 | 12.2 |
| 55–64 years | --- | --- | --- | 24.6 | 38.3 | 39.1 | 29.8 | 32.3 | 35.9 | 35.3 | 32.0 |
| 65–74 years | --- | --- | --- | 62.4 | 71.6 | 86.1 | 76.1 | 79.7 | 82.0 | 80.7 | 85.6 |
| 75–84 years | --- | --- | --- | 117.7 | 137.9 | 162.9 | 149.5 | 147.3 | 138.6 | 136.3 | 132.4 |
| 85 years and over | --- | --- | --- | * | 172.9 | 281.9 | 179.0 | 170.5 | 176.3 | 173.4 | 199.7 |
| Hispanic female ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 14.1 | 13.6 | 14.1 | 14.5 | 13.2 | 13.0 | 13.1 |
| All ages, crude | --- | --- | --- | --- | 7.2 | 7.3 | 7.8 | 8.1 | 7.5 | 7.4 | 7.5 |
| 45–54 years | --- | --- | --- | --- | 8.7 | 7.1 | 6.1 | 7.1 | 7.3 | 7.2 | 6.7 |
| 55–64 years | --- | --- | --- | --- | 25.1 | 24.8 | 25.9 | 27.7 | 23.9 | 23.5 | 22.3 |
| 65–74 years | --- | --- | --- | --- | 66.8 | 56.8 | 65.8 | 67.2 | 59.5 | 58.5 | 60.4 |
| 75–84 years | --- | --- | --- | --- | 94.3 | 103.6 | 98.8 | 101.3 | 95.0 | 93.5 | 90.4 |
| 85 years and over | --- | --- | --- | --- | 118.2 | 117.0 | 124.8 | 116.0 | 105.5 | 103.8 | 124.2 |
| White, non-Hispanic female ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 39.0 | 42.9 | 43.3 | 43.8 | 44.1 | 43.4 | 43.4 |
| All ages, crude | --- | --- | --- | --- | 46.2 | 52.6 | 53.5 | 54.4 | 55.2 | 54.3 | 54.6 |
| 45–54 years | --- | --- | --- | --- | 36.6 | 31.3 | 30.1 | 28.4 | 27.4 | 27.0 | 26.4 |
| 55–64 years | --- | --- | --- | --- | 111.3 | 110.5 | 108.4 | 106.3 | 105.6 | 103.9 | 100.8 |
| 65–74 years | --- | --- | --- | --- | 186.4 | 212.0 | 217.5 | 221.3 | 226.1 | 222.4 | 220.6 |
| 75–84 years | --- | --- | --- | --- | 199.1 | 250.5 | 257.2 | 265.6 | 270.0 | 265.6 | 271.0 |
| 85 years and over | --- | --- | --- | --- | 139.0 | 185.1 | 190.6 | 203.3 | 203.9 | 200.6 | 210.6 |

0.0 Quantity more than zero but less than 0.05.

* Based on fewer than 20 deaths.

--- Data not available.

¹Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

²Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

³Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

⁴In 1950 rate is for the age group 75 years and over.

⁵Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

⁶Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

⁷Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. For data years shown, code numbers for cause of death are based on the then current revision of the *International Classification of Diseases* (ICD). See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for the black population in 1950, the white population in 1960, and for Hispanic and non-Hispanic white for 1985 (and 1986–89, 1991 available electronically) were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. Grove RD and Hetzel AM. *Vital statistics rates in the United States, 1940–60*. Washington: Public Health Service, 1968; *Vital statistics of the United States, vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/dataawh/statab/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 41 (page 1 of 2). Death rates for malignant neoplasm of breast for females, according to race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|--------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| All persons | | | | | | | | | | | |
| All ages, age adjusted | 31.9 | 31.7 | 32.1 | 31.9 | 33.3 | 30.8 | 29.8 | 28.6 | 27.9 | 28.1 | 27.0 |
| All ages, crude | 24.7 | 26.1 | 28.4 | 30.6 | 34.0 | 32.6 | 31.8 | 30.7 | 30.2 | 30.4 | 29.5 |
| Under 25 years | * | * | * | * | * | * | 0.0 | * | * | * | * |
| 25–34 years | 3.8 | 3.8 | 3.9 | 3.3 | 2.9 | 2.7 | 2.7 | 2.6 | 2.6 | 2.6 | 2.3 |
| 35–44 years | 20.8 | 20.2 | 20.4 | 17.9 | 17.8 | 15.0 | 14.2 | 14.0 | 13.4 | 13.5 | 12.1 |
| 45–54 years | 46.9 | 51.4 | 52.6 | 48.1 | 45.4 | 41.4 | 38.8 | 37.8 | 35.8 | 36.0 | 33.5 |
| 55–64 years | 69.9 | 70.8 | 77.6 | 80.5 | 78.6 | 69.8 | 67.4 | 64.4 | 62.2 | 62.5 | 59.9 |
| 65–74 years | 95.0 | 90.0 | 93.8 | 101.1 | 111.7 | 103.3 | 99.1 | 94.1 | 93.3 | 93.8 | 89.9 |
| 75–84 years | 139.8 | 129.9 | 127.4 | 126.4 | 146.3 | 142.0 | 139.8 | 132.2 | 131.4 | 132.1 | 131.3 |
| 85 years and over | 195.5 | 191.9 | 157.1 | 169.3 | 196.8 | 203.7 | 204.9 | 198.5 | 194.7 | 195.8 | 202.6 |
| White | | | | | | | | | | | |
| All ages, age adjusted | 32.4 | 32.0 | 32.5 | 32.1 | 33.2 | 30.4 | 29.4 | 28.0 | 27.3 | 27.5 | 26.4 |
| All ages, crude | 25.7 | 27.2 | 29.9 | 32.3 | 35.9 | 34.1 | 33.3 | 31.9 | 31.5 | 31.7 | 30.7 |
| 35–44 years | 20.8 | 19.7 | 20.2 | 17.3 | 17.1 | 14.1 | 12.9 | 12.9 | 12.2 | 12.3 | 10.8 |
| 45–54 years | 47.1 | 51.2 | 53.0 | 48.1 | 44.3 | 39.2 | 36.9 | 36.1 | 33.8 | 34.0 | 31.4 |
| 55–64 years | 70.9 | 71.8 | 79.3 | 81.3 | 78.5 | 68.7 | 67.2 | 62.8 | 60.7 | 61.0 | 58.1 |
| 65–74 years | 96.3 | 91.6 | 95.9 | 103.7 | 113.3 | 103.9 | 99.8 | 93.6 | 94.1 | 94.6 | 89.9 |
| 75–84 years | 143.6 | 132.8 | 129.6 | 128.4 | 148.2 | 143.0 | 140.6 | 132.3 | 132.2 | 132.9 | 131.7 |
| 85 years and over | 204.2 | 199.7 | 161.9 | 171.7 | 198.0 | 205.9 | 207.1 | 199.9 | 196.4 | 197.5 | 205.0 |
| Black | | | | | | | | | | | |
| All ages, age adjusted | 25.3 | 27.9 | 28.9 | 31.7 | 38.1 | 38.3 | 37.3 | 37.7 | 35.7 | 35.9 | 35.6 |
| All ages, crude | 16.4 | 18.7 | 19.7 | 22.9 | 29.0 | 30.2 | 29.9 | 30.4 | 29.2 | 29.4 | 29.3 |
| 35–44 years | 21.0 | 24.8 | 24.4 | 24.1 | 25.8 | 23.1 | 24.6 | 23.1 | 23.0 | 23.1 | 21.9 |
| 45–54 years | 46.5 | 54.4 | 52.0 | 52.7 | 60.5 | 62.6 | 59.1 | 56.4 | 55.7 | 56.0 | 54.0 |
| 55–64 years | 64.3 | 63.2 | 64.7 | 79.9 | 93.1 | 88.8 | 82.9 | 88.1 | 82.1 | 82.6 | 81.7 |
| 65–74 years | 67.0 | 72.3 | 77.3 | 84.3 | 112.2 | 117.3 | 109.9 | 117.7 | 104.9 | 105.5 | 105.5 |
| 75–84 years ⁴ | 81.0 | 87.5 | 101.8 | 114.1 | 140.5 | 151.6 | 152.9 | 154.0 | 146.5 | 147.3 | 152.0 |
| 85 years and over | --- | 92.1 | 112.1 | 149.9 | 201.5 | 198.6 | 206.9 | 211.2 | 206.6 | 207.8 | 205.9 |
| American Indian or Alaska Native ⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 10.8 | 13.7 | 14.6 | 17.8 | 13.1 | 14.2 | 14.3 | 15.4 |
| All ages, crude | --- | --- | --- | 6.1 | 8.6 | 9.8 | 12.1 | 9.0 | 10.1 | 10.2 | 10.7 |
| 35–44 years | --- | --- | --- | * | * | * | * | * | * | * | * |
| 45–54 years | --- | --- | --- | * | 23.9 | 24.0 | 28.0 | 19.6 | 21.2 | 21.3 | 19.6 |
| 55–64 years | --- | --- | --- | * | * | 39.1 | 43.9 | 32.9 | 38.2 | 38.4 | 35.7 |
| 65–74 years | --- | --- | --- | * | * | 45.4 | 66.0 | 48.2 | 42.8 | 43.0 | 70.3 |
| 75–84 years | --- | --- | --- | * | * | * | * | * | * | * | * |
| 85 years and over | --- | --- | --- | * | * | * | * | * | * | * | * |
| Asian or Pacific Islander ⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 11.9 | 13.7 | 14.6 | 12.4 | 12.6 | 13.1 | 13.2 | 13.1 |
| All ages, crude | --- | --- | --- | 8.2 | 9.3 | 11.1 | 9.6 | 9.9 | 10.6 | 10.7 | 10.4 |
| 35–44 years | --- | --- | --- | 10.4 | 8.4 | 8.3 | 8.8 | 8.2 | 7.8 | 7.8 | 6.6 |
| 45–54 years | --- | --- | --- | 23.4 | 26.4 | 30.2 | 22.0 | 23.2 | 22.9 | 23.0 | 20.9 |
| 55–64 years | --- | --- | --- | 35.7 | 33.8 | 39.4 | 23.0 | 33.1 | 40.0 | 40.2 | 38.7 |
| 65–74 years | --- | --- | --- | * | 38.5 | 37.4 | 40.2 | 34.1 | 35.0 | 35.2 | 38.7 |
| 75–84 years | --- | --- | --- | * | 48.0 | 44.9 | 51.0 | 40.6 | 42.3 | 42.5 | 45.3 |
| 85 years and over | --- | --- | --- | * | * | * | * | 68.8 | 54.3 | 54.6 | 71.5 |
| Hispanic ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 19.5 | 18.1 | 18.4 | 17.8 | 16.8 | 16.9 | 15.4 |
| All ages, crude | --- | --- | --- | --- | 11.5 | 10.9 | 11.4 | 11.2 | 10.7 | 10.8 | 9.9 |
| 35–44 years | --- | --- | --- | --- | 11.7 | 9.7 | 11.0 | 9.9 | 9.8 | 9.9 | 8.5 |
| 45–54 years | --- | --- | --- | --- | 32.8 | 27.7 | 27.4 | 26.7 | 25.3 | 25.4 | 24.1 |
| 55–64 years | --- | --- | --- | --- | 45.8 | 43.8 | 39.7 | 45.4 | 43.1 | 43.3 | 35.3 |
| 65–74 years | --- | --- | --- | --- | 64.8 | 55.7 | 56.5 | 52.9 | 54.7 | 55.0 | 46.3 |
| 75–84 years | --- | --- | --- | --- | 67.2 | 75.5 | 85.6 | 71.6 | 63.6 | 64.0 | 63.4 |
| 85 years and over | --- | --- | --- | --- | 102.8 | 105.4 | 104.5 | 101.9 | 85.9 | 86.4 | 97.9 |

See footnotes at end of table.

Table 41 (page 2 of 2). Death rates for malignant neoplasm of breast for females, according to race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| Race, Hispanic origin, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | Comparability modified 1998 ² | 1999 ³ |
|----------------------------------------|-------------------|-------------------|------|------|-------|-------|-------|-------|-------|------------------------------------------------|-------------------|
| White, non-Hispanic ⁷ | | | | | | | | | | | |
| Deaths per 100,000 resident population | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 33.9 | 30.9 | 29.9 | 28.5 | 27.9 | 28.1 | 27.0 |
| All ages, crude | --- | --- | --- | --- | 38.5 | 36.8 | 35.9 | 34.4 | 34.2 | 34.4 | 33.5 |
| 35–44 years | --- | --- | --- | --- | 17.5 | 14.4 | 12.9 | 13.1 | 12.4 | 12.5 | 11.0 |
| 45–54 years | --- | --- | --- | --- | 45.2 | 39.9 | 37.5 | 36.7 | 34.4 | 34.6 | 31.9 |
| 55–64 years | --- | --- | --- | --- | 80.6 | 70.2 | 69.0 | 63.8 | 61.7 | 62.0 | 59.7 |
| 65–74 years | --- | --- | --- | --- | 115.7 | 106.2 | 102.0 | 95.7 | 96.3 | 96.8 | 92.6 |
| 75–84 years | --- | --- | --- | --- | 151.4 | 145.2 | 142.6 | 134.4 | 135.0 | 135.8 | 134.5 |
| 85 years and over | --- | --- | --- | --- | 201.5 | 208.3 | 211.7 | 203.3 | 200.6 | 201.7 | 209.2 |

* Based on fewer than 20 deaths.

0.0 Quantity more than zero but less than 0.05.

--- Data not available.

¹Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

²Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

³Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

⁴In 1950 rate is for the age group 75 years and over.

⁵Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

⁶Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

⁷Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. For data years shown, code numbers for cause of death are based on the then current revision of the *International Classification of Diseases* (ICD). See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for all persons in 1950 and for Hispanic and non-Hispanic white for 1985 (and 1986–89, 1991 available electronically) were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. *Vital statistics of the United States, vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 42 (page 1 of 3). Death rates for chronic lower respiratory diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1980–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1980</i> | <i>1990</i> | <i>1992</i> | <i>1993</i> | <i>1994</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998¹</i> | <i>1999²</i> |
|------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| All persons | | | | | | | | | | | |
| All ages, age adjusted | 28.3 | 37.2 | 37.9 | 41.0 | 40.6 | 40.5 | 41.0 | 41.5 | 42.0 | 44.0 | 45.8 |
| All ages, crude | 24.7 | 34.9 | 36.0 | 39.2 | 39.0 | 39.2 | 40.0 | 40.7 | 41.7 | 43.7 | 45.5 |
| Under 1 year | 1.6 | 1.4 | 1.1 | 1.4 | 1.4 | 1.1 | 1.0 | 1.3 | 1.0 | 1.0 | 0.9 |
| 1–4 years | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 |
| 5–14 years | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 |
| 15–24 years | 0.3 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 | 0.5 | 0.6 | 0.6 | 0.6 |
| 25–34 years | 0.5 | 0.7 | 0.7 | 0.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.9 |
| 35–44 years | 1.6 | 1.6 | 1.8 | 1.8 | 1.8 | 2.0 | 2.0 | 2.0 | 2.0 | 2.1 | 2.0 |
| 45–54 years | 9.8 | 9.1 | 8.3 | 8.7 | 9.0 | 8.9 | 8.7 | 8.4 | 8.2 | 8.6 | 8.7 |
| 55–64 years | 42.7 | 48.9 | 48.3 | 51.0 | 49.2 | 47.3 | 47.0 | 46.3 | 44.8 | 46.9 | 48.3 |
| 65–74 years | 129.1 | 152.5 | 155.5 | 167.8 | 163.8 | 160.6 | 161.6 | 165.3 | 169.1 | 177.2 | 179.2 |
| 75–84 years | 224.4 | 321.1 | 326.5 | 357.3 | 351.9 | 351.8 | 358.3 | 359.6 | 365.8 | 383.3 | 400.4 |
| 85 years and over | 274.0 | 433.3 | 460.9 | 493.9 | 509.7 | 527.8 | 540.9 | 561.9 | 569.3 | 596.5 | 642.7 |
| Male | | | | | | | | | | | |
| All ages, age adjusted | 49.9 | 55.5 | 54.2 | 57.3 | 55.7 | 55.0 | 54.2 | 54.6 | 54.0 | 56.6 | 58.1 |
| All ages, crude | 35.1 | 40.8 | 40.5 | 43.2 | 42.3 | 42.0 | 42.0 | 42.7 | 43.2 | 45.3 | 46.8 |
| Under 1 year | 1.9 | 1.6 | 1.7 | 1.5 | 1.7 | 1.4 | 1.3 | 1.6 | 1.2 | 1.3 | * |
| 1–4 years | 0.5 | 0.5 | 0.4 | 0.4 | 0.3 | 0.2 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 |
| 5–14 years | 0.2 | 0.4 | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 |
| 15–24 years | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.6 |
| 25–34 years | 0.6 | 0.7 | 0.7 | 0.6 | 0.9 | 0.9 | 0.8 | 1.0 | 0.9 | 0.9 | 0.8 |
| 35–44 years | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.7 | 1.9 | 1.9 | 1.9 | 2.0 | 1.8 |
| 45–54 years | 12.1 | 9.4 | 8.7 | 9.5 | 9.3 | 9.0 | 8.9 | 8.8 | 8.2 | 8.6 | 8.9 |
| 55–64 years | 59.9 | 58.6 | 56.3 | 58.1 | 55.9 | 52.9 | 52.2 | 50.5 | 49.6 | 52.0 | 53.4 |
| 65–74 years | 210.0 | 204.0 | 199.7 | 208.4 | 202.0 | 196.9 | 192.6 | 201.3 | 201.2 | 210.8 | 213.2 |
| 75–84 years | 437.4 | 500.0 | 478.6 | 512.1 | 490.4 | 482.5 | 478.8 | 469.6 | 471.5 | 494.0 | 507.2 |
| 85 years and over | 583.4 | 815.1 | 830.9 | 883.1 | 874.9 | 896.2 | 878.6 | 902.8 | 869.8 | 911.4 | 959.0 |
| Female | | | | | | | | | | | |
| All ages, age adjusted | 14.9 | 26.6 | 28.5 | 31.5 | 31.9 | 32.2 | 33.4 | 33.9 | 34.8 | 36.5 | 38.2 |
| All ages, crude | 15.0 | 29.2 | 31.8 | 35.4 | 35.9 | 36.4 | 38.0 | 38.8 | 40.2 | 42.1 | 44.3 |
| Under 1 year | 1.3 | 1.2 | * | 1.2 | 1.1 | * | * | * | * | * | * |
| 1–4 years | * | * | 0.4 | * | * | * | * | * | * | * | 0.3 |
| 5–14 years | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 |
| 15–24 years | 0.3 | 0.5 | 0.5 | 0.4 | 0.5 | 0.6 | 0.6 | 0.4 | 0.5 | 0.5 | 0.5 |
| 25–34 years | 0.5 | 0.7 | 0.6 | 0.8 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.9 |
| 35–44 years | 1.5 | 1.5 | 1.7 | 1.8 | 1.7 | 2.2 | 2.1 | 2.1 | 2.0 | 2.1 | 2.1 |
| 45–54 years | 7.7 | 8.8 | 7.9 | 8.0 | 8.7 | 8.8 | 8.4 | 8.1 | 8.2 | 8.6 | 8.5 |
| 55–64 years | 27.6 | 40.3 | 41.0 | 44.6 | 43.1 | 42.2 | 42.4 | 42.6 | 40.5 | 42.4 | 43.6 |
| 65–74 years | 67.1 | 112.3 | 120.7 | 135.6 | 133.4 | 131.5 | 136.7 | 136.1 | 143.0 | 149.8 | 151.4 |
| 75–84 years | 98.7 | 214.2 | 233.4 | 261.5 | 265.2 | 268.8 | 280.4 | 287.6 | 295.8 | 309.9 | 328.9 |
| 85 years and over | 138.7 | 286.0 | 317.6 | 344.6 | 368.8 | 384.3 | 406.7 | 424.5 | 444.7 | 466.0 | 509.0 |
| White male | | | | | | | | | | | |
| All ages, age adjusted | 51.6 | 56.6 | 55.5 | 58.6 | 56.9 | 56.1 | 55.5 | 55.9 | 55.4 | 58.0 | 59.6 |
| All ages, crude | 37.9 | 44.3 | 44.4 | 47.3 | 46.4 | 46.1 | 46.1 | 47.0 | 47.7 | 50.0 | 51.7 |
| 35–44 years | 1.2 | 1.3 | 1.5 | 1.3 | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 |
| 45–54 years | 11.4 | 8.6 | 8.3 | 9.0 | 8.7 | 8.3 | 8.5 | 8.3 | 7.6 | 8.0 | 8.3 |
| 55–64 years | 60.0 | 58.7 | 56.6 | 58.5 | 56.7 | 53.2 | 52.3 | 51.0 | 50.0 | 52.4 | 54.0 |
| 65–74 years | 218.4 | 208.1 | 204.6 | 213.3 | 206.9 | 201.6 | 198.4 | 207.5 | 208.5 | 218.5 | 220.5 |
| 75–84 years | 459.8 | 513.5 | 494.1 | 525.2 | 504.2 | 496.3 | 491.1 | 481.4 | 485.5 | 508.7 | 519.8 |
| 85 years and over | 611.2 | 847.0 | 862.5 | 917.6 | 907.7 | 924.0 | 917.5 | 940.1 | 904.8 | 948.0 | 997.5 |
| Black male | | | | | | | | | | | |
| All ages, age adjusted | 34.0 | 47.6 | 45.4 | 48.9 | 46.9 | 47.0 | 46.1 | 45.8 | 45.2 | 47.4 | 50.1 |
| All ages, crude | 19.3 | 25.2 | 23.8 | 25.7 | 24.9 | 24.9 | 24.7 | 24.6 | 24.7 | 25.9 | 27.2 |
| 35–44 years | 5.8 | 5.3 | 4.7 | 5.4 | 4.9 | 4.3 | 5.2 | 4.8 | 5.0 | 5.2 | 4.7 |
| 45–54 years | 19.7 | 18.8 | 15.1 | 16.9 | 16.6 | 17.3 | 15.4 | 14.9 | 15.1 | 15.8 | 16.0 |
| 55–64 years | 66.6 | 67.4 | 64.8 | 65.9 | 61.0 | 62.0 | 63.2 | 56.6 | 56.6 | 59.3 | 62.0 |
| 65–74 years | 142.0 | 184.5 | 175.1 | 184.9 | 181.7 | 175.1 | 161.6 | 170.7 | 164.2 | 172.0 | 177.4 |
| 75–84 years | 229.8 | 390.9 | 354.5 | 407.1 | 374.1 | 366.5 | 380.7 | 374.9 | 372.1 | 389.9 | 423.9 |
| 85 years and over | 271.6 | 498.0 | 559.8 | 560.6 | 561.7 | 613.6 | 579.5 | 586.5 | 570.9 | 598.2 | 650.9 |

See footnotes at end of table.

Table 42 (page 2 of 3). Death rates for chronic lower respiratory diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1980–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1980</i> | <i>1990</i> | <i>1992</i> | <i>1993</i> | <i>1994</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998¹</i> | <i>1999²</i> |
|----------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| American Indian or Alaska Native male ³ | | | | | | | | | | | |
| All ages, age adjusted | 23.0 | 38.3 | 28.4 | 32.7 | 32.5 | 30.9 | 27.7 | 38.7 | 37.8 | 39.6 | 34.7 |
| All ages, crude | 8.4 | 13.8 | 11.3 | 13.4 | 13.4 | 13.4 | 11.9 | 17.9 | 17.7 | 18.5 | 16.6 |
| 35–44 years | * | * | * | * | * | * | * | * | * | * | * |
| 45–54 years | * | * | * | * | * | * | * | * | * | * | * |
| 55–64 years | * | * | 39.8 | 42.4 | 33.3 | 39.2 | * | 54.0 | 47.5 | 49.8 | 40.2 |
| 65–74 years | * | 135.7 | 102.9 | 138.9 | 130.4 | 129.3 | 115.9 | 127.8 | 139.8 | 146.5 | 166.8 |
| 75–84 years | * | 363.8 | 276.8 | 313.9 | 301.8 | 253.8 | 229.7 | 339.9 | 317.3 | 332.5 | 297.0 |
| 85 years and over | * | * | * | * | * | * | 421.9 | 488.8 | 500.2 | 524.1 | 340.3 |
| Asian or Pacific Islander male ⁴ | | | | | | | | | | | |
| All ages, age adjusted | 21.5 | 29.8 | 25.3 | 31.2 | 30.1 | 33.3 | 28.2 | 29.2 | 25.5 | 26.7 | 29.3 |
| All ages, crude | 8.7 | 11.3 | 10.3 | 11.9 | 11.5 | 12.3 | 12.7 | 12.9 | 11.9 | 12.5 | 13.8 |
| 35–44 years | * | * | * | * | * | * | * | * | * | * | * |
| 45–54 years | * | * | * | * | * | * | * | * | * | * | * |
| 55–64 years | * | 22.1 | 19.6 | 19.8 | 15.7 | 16.4 | 19.2 | 16.6 | 17.1 | 17.9 | 15.2 |
| 65–74 years | 70.6 | 91.4 | 94.6 | 94.1 | 85.5 | 91.7 | 89.9 | 86.2 | 74.7 | 78.3 | 87.6 |
| 75–84 years | 155.7 | 258.6 | 206.1 | 278.2 | 264.2 | 263.6 | 294.8 | 276.3 | 216.4 | 226.7 | 278.2 |
| 85 years and over | 472.4 | 615.2 | 483.8 | 645.7 | 660.6 | 847.8 | 421.7 | 568.2 | 553.5 | 580.0 | 581.2 |
| Hispanic male ⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | 28.6 | 25.2 | 29.2 | 28.8 | 29.9 | 26.8 | 27.2 | 26.2 | 27.5 | 27.3 |
| All ages, crude | --- | 8.4 | 8.1 | 9.0 | 9.0 | 9.4 | 8.7 | 9.0 | 9.3 | 9.7 | 9.8 |
| 35–44 years | --- | * | 2.1 | 1.3 | 1.3 | 1.1 | 1.1 | 1.5 | 1.3 | 1.4 | 1.5 |
| 45–54 years | --- | 4.1 | 4.5 | 3.1 | 4.6 | 3.9 | 4.0 | 3.5 | 3.7 | 3.9 | 3.7 |
| 55–64 years | --- | 17.2 | 16.5 | 21.1 | 18.2 | 18.8 | 18.8 | 17.6 | 17.7 | 18.5 | 17.3 |
| 65–74 years | --- | 81.0 | 76.7 | 77.1 | 80.3 | 78.8 | 68.4 | 77.2 | 73.4 | 76.9 | 76.8 |
| 75–84 years | --- | 252.4 | 223.9 | 244.4 | 253.5 | 273.8 | 240.3 | 220.2 | 231.7 | 242.8 | 229.4 |
| 85 years and over | --- | 613.9 | 483.5 | 666.5 | 616.2 | 634.5 | 579.5 | 634.3 | 541.7 | 567.6 | 610.7 |
| White, non-Hispanic male ⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | 57.9 | 56.3 | 59.1 | 57.7 | 56.9 | 56.6 | 57.2 | 56.8 | 59.5 | 61.3 |
| All ages, crude | --- | 48.5 | 48.2 | 51.5 | 50.7 | 50.4 | 50.9 | 52.2 | 52.9 | 55.4 | 57.6 |
| 35–44 years | --- | 1.4 | 1.4 | 1.3 | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 |
| 45–54 years | --- | 9.0 | 8.3 | 9.2 | 8.9 | 8.5 | 8.7 | 8.6 | 7.9 | 8.3 | 8.6 |
| 55–64 years | --- | 61.3 | 58.5 | 60.1 | 58.8 | 55.2 | 54.1 | 53.3 | 52.3 | 54.8 | 56.6 |
| 65–74 years | --- | 213.4 | 208.4 | 217.6 | 211.5 | 206.5 | 204.0 | 214.2 | 215.9 | 226.2 | 228.9 |
| 75–84 years | --- | 523.7 | 498.2 | 529.8 | 510.3 | 501.9 | 499.5 | 491.0 | 495.8 | 519.5 | 532.6 |
| 85 years and over | --- | 860.6 | 873.1 | 909.1 | 908.6 | 924.5 | 928.0 | 951.1 | 920.4 | 964.4 | 1,014.3 |
| White female | | | | | | | | | | | |
| All ages, age adjusted | 15.5 | 27.8 | 29.8 | 33.0 | 33.4 | 33.6 | 34.9 | 35.5 | 36.5 | 38.2 | 40.2 |
| All ages, crude | 16.4 | 32.8 | 35.8 | 40.0 | 40.6 | 41.2 | 43.0 | 44.1 | 45.7 | 47.9 | 50.5 |
| 35–44 years | 1.3 | 1.2 | 1.3 | 1.4 | 1.3 | 1.7 | 1.7 | 1.7 | 1.6 | 1.7 | 1.8 |
| 45–54 years | 7.6 | 8.3 | 7.5 | 7.6 | 8.3 | 8.4 | 8.0 | 7.8 | 7.7 | 8.1 | 8.2 |
| 55–64 years | 28.7 | 41.9 | 43.2 | 47.0 | 45.2 | 44.3 | 44.6 | 44.8 | 42.7 | 44.7 | 46.1 |
| 65–74 years | 71.0 | 118.8 | 127.7 | 143.8 | 141.8 | 139.8 | 145.3 | 145.3 | 153.0 | 160.3 | 162.2 |
| 75–84 years | 104.0 | 226.3 | 246.9 | 276.1 | 280.1 | 282.8 | 296.4 | 304.2 | 312.9 | 327.9 | 347.3 |
| 85 years and over | 144.2 | 298.4 | 330.7 | 361.2 | 384.9 | 402.0 | 423.6 | 445.0 | 466.6 | 488.9 | 535.1 |
| Black female | | | | | | | | | | | |
| All ages, age adjusted | 9.1 | 16.6 | 18.0 | 19.4 | 20.1 | 20.5 | 21.8 | 21.1 | 22.3 | 23.4 | 23.9 |
| All ages, crude | 6.8 | 12.6 | 13.7 | 14.9 | 15.4 | 15.8 | 17.0 | 16.5 | 17.5 | 18.3 | 18.7 |
| 35–44 years | 3.4 | 3.8 | 4.3 | 5.3 | 5.1 | 5.4 | 5.0 | 5.0 | 5.3 | 5.6 | 4.6 |
| 45–54 years | 9.3 | 14.0 | 13.3 | 12.6 | 13.5 | 12.9 | 13.2 | 12.2 | 14.2 | 14.9 | 12.8 |
| 55–64 years | 20.8 | 33.4 | 32.1 | 35.2 | 35.8 | 34.7 | 34.8 | 35.8 | 33.8 | 35.4 | 34.7 |
| 65–74 years | 32.7 | 64.7 | 73.5 | 78.3 | 79.2 | 78.3 | 84.3 | 81.4 | 84.8 | 88.9 | 88.3 |
| 75–84 years | 41.1 | 96.0 | 105.6 | 120.2 | 122.1 | 136.6 | 137.6 | 136.9 | 148.9 | 156.0 | 174.0 |
| 85 years and over | 63.2 | 133.0 | 169.0 | 163.5 | 195.0 | 191.4 | 236.5 | 220.9 | 231.1 | 242.1 | 262.9 |

See footnotes at end of table.

Table 42 (page 3 of 3). Death rates for chronic lower respiratory diseases, according to sex, race, Hispanic origin, and age: United States, selected years 1980–99

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and age | 1980 | 1990 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | Comparability modified 1998 ¹ | 1999 ² |
|------------------------------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------------------------------|-------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| American Indian or Alaska Native female³ | | | | | | | | | | | |
| All ages, age adjusted | 7.7 | 16.8 | 16.7 | 22.6 | 20.1 | 20.8 | 22.2 | 19.3 | 21.7 | 22.7 | 27.3 |
| All ages, crude | 3.8 | 8.7 | 9.3 | 12.9 | 11.5 | 12.5 | 13.4 | 12.2 | 13.6 | 14.3 | 17.3 |
| 35–44 years | * | * | * | * | * | * | * | * | * | * | * |
| 45–54 years | * | * | * | * | * | * | * | * | * | * | * |
| 55–64 years | * | * | * | 38.1 | 34.0 | 40.6 | 32.6 | 35.7 | 31.6 | 33.1 | 44.6 |
| 65–74 years | * | 56.4 | 62.3 | 114.6 | 73.8 | 77.8 | 78.7 | 88.1 | 118.2 | 123.8 | 110.5 |
| 75–84 years | * | 116.7 | 128.9 | 172.2 | 189.7 | 168.9 | 192.9 | 137.5 | 165.8 | 173.7 | 259.2 |
| 85 years and over | * | * | * | * | * | * | 265.8 | 171.0 | 162.3 | 170.1 | 194.0 |
| Asian or Pacific Islander female⁴ | | | | | | | | | | | |
| All ages, age adjusted | 5.8 | 11.0 | 9.8 | 10.9 | 11.8 | 13.2 | 11.3 | 12.6 | 11.0 | 11.5 | 12.0 |
| All ages, crude | 2.6 | 5.2 | 4.9 | 5.4 | 5.8 | 6.5 | 6.5 | 7.2 | 6.4 | 6.7 | 7.2 |
| 35–44 years | * | * | * | * | * | * | * | * | * | * | * |
| 45–54 years | * | * | * | * | * | 3.6 | * | * | * | * | * |
| 55–64 years | * | 15.2 | 9.2 | 7.8 | 9.4 | 10.0 | 11.1 | 9.2 | 6.7 | 7.0 | 8.1 |
| 65–74 years | * | 26.5 | 29.6 | 31.0 | 29.4 | 29.8 | 32.7 | 32.2 | 28.5 | 29.9 | 41.2 |
| 75–84 years | * | 80.6 | 79.7 | 102.4 | 105.5 | 120.1 | 81.1 | 117.7 | 92.4 | 96.8 | 95.7 |
| 85 years and over | * | 232.5 | 190.7 | 191.8 | 238.0 | 272.6 | 240.9 | 242.3 | 252.3 | 264.4 | 246.5 |
| Hispanic female⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | 13.4 | 12.9 | 14.9 | 14.7 | 15.8 | 16.1 | 14.9 | 13.7 | 14.4 | 15.3 |
| All ages, crude | --- | 6.3 | 6.3 | 7.3 | 7.3 | 7.9 | 8.3 | 7.8 | 7.4 | 7.8 | 8.4 |
| 35–44 years | --- | * | 1.3 | 1.2 | 1.3 | 1.5 | 1.3 | 1.1 | 1.9 | 2.0 | 1.8 |
| 45–54 years | --- | 4.9 | 4.2 | 3.6 | 4.1 | 4.6 | 4.1 | 4.4 | 3.2 | 3.4 | 4.2 |
| 55–64 years | --- | 14.4 | 10.8 | 12.2 | 12.1 | 12.5 | 13.0 | 11.7 | 11.6 | 12.2 | 11.5 |
| 65–74 years | --- | 36.6 | 34.5 | 44.8 | 41.2 | 41.4 | 40.9 | 38.6 | 38.3 | 40.1 | 44.8 |
| 75–84 years | --- | 101.1 | 109.2 | 123.0 | 114.5 | 116.7 | 134.1 | 119.3 | 116.6 | 122.2 | 126.2 |
| 85 years and over | --- | 269.0 | 250.2 | 290.5 | 308.4 | 367.2 | 342.8 | 322.6 | 261.1 | 273.6 | 299.3 |
| White, non-Hispanic female⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | 28.5 | 30.3 | 33.5 | 34.1 | 34.4 | 35.8 | 36.5 | 37.7 | 39.5 | 41.5 |
| All ages, crude | --- | 35.7 | 38.7 | 43.3 | 44.4 | 45.0 | 47.2 | 48.6 | 50.7 | 53.1 | 56.3 |
| 35–44 years | --- | 1.2 | 1.3 | 1.4 | 1.3 | 1.7 | 1.7 | 1.8 | 1.5 | 1.6 | 1.8 |
| 45–54 years | --- | 8.5 | 7.5 | 7.7 | 8.5 | 8.6 | 8.2 | 8.1 | 8.0 | 8.4 | 8.6 |
| 55–64 years | --- | 43.7 | 44.8 | 49.0 | 47.3 | 46.6 | 46.8 | 47.3 | 45.1 | 47.3 | 48.9 |
| 65–74 years | --- | 122.8 | 130.8 | 147.0 | 146.2 | 144.0 | 150.4 | 151.2 | 160.0 | 167.6 | 169.8 |
| 75–84 years | --- | 231.9 | 250.1 | 280.1 | 285.6 | 288.4 | 302.5 | 310.9 | 320.9 | 336.2 | 356.6 |
| 85 years and over | --- | 302.1 | 330.9 | 358.7 | 383.6 | 401.2 | 426.8 | 447.9 | 473.7 | 496.3 | 544.1 |

* Based on fewer than 20 deaths.

--- Data not available.

¹Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

²Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

³Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

⁴Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

⁵Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. For data years shown, code numbers for cause of death are based on the then current revision of the *International Classification of Diseases* (ICD). See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for Hispanic and non-Hispanic white for 1985 (and 1986–89, 1991 available electronically) were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. *Vital statistics of the United States, vol II, mortality, part A*, for data years 1980–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 43 (page 1 of 2). Death rates for human immunodeficiency virus (HIV) disease, according to sex, race, Hispanic origin, and age: United States, selected years 1987–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1987</i> | <i>1990</i> | <i>1993</i> | <i>1994</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998¹</i> | <i>1999²</i> |
|------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | |
| All persons | | | | | | | | | | |
| All ages, age adjusted | 5.6 | 10.2 | 14.5 | 16.2 | 16.3 | 11.7 | 6.1 | 4.9 | 5.6 | 5.4 |
| All ages, crude | 5.6 | 10.1 | 14.5 | 16.2 | 16.4 | 11.7 | 6.2 | 5.0 | 5.7 | 5.4 |
| Under 1 year | 2.3 | 2.7 | 2.2 | 2.5 | 1.5 | 1.1 | * | * | * | * |
| 1–4 years | 0.7 | 0.8 | 1.3 | 1.3 | 1.3 | 0.9 | 0.4 | 0.2 | 0.2 | 0.2 |
| 5–14 years | 0.1 | 0.2 | 0.4 | 0.5 | 0.5 | 0.5 | 0.3 | 0.1 | 0.1 | 0.2 |
| 15–24 years | 1.3 | 1.5 | 1.7 | 1.8 | 1.7 | 1.1 | 0.8 | 0.5 | 0.6 | 0.5 |
| 25–34 years | 11.7 | 19.7 | 27.0 | 29.3 | 29.1 | 19.9 | 10.1 | 7.5 | 8.6 | 7.2 |
| 35–44 years | 14.0 | 27.4 | 39.1 | 44.1 | 44.4 | 31.4 | 16.1 | 12.9 | 14.8 | 13.9 |
| 45–54 years | 8.0 | 15.2 | 22.6 | 25.6 | 26.3 | 19.3 | 10.4 | 9.0 | 10.3 | 10.9 |
| 55–64 years | 3.5 | 6.2 | 8.8 | 10.4 | 11.0 | 8.4 | 4.9 | 4.3 | 4.9 | 4.9 |
| 65–74 years | 1.3 | 2.0 | 2.9 | 3.1 | 3.6 | 2.7 | 1.8 | 1.6 | 1.8 | 2.2 |
| 75–84 years | 0.8 | 0.7 | 0.8 | 0.9 | 0.7 | 0.8 | 0.6 | 0.5 | 0.6 | 0.6 |
| 85 years and over | * | * | * | * | * | * | * | * | * | * |
| Male | | | | | | | | | | |
| All ages, age adjusted | 10.4 | 18.5 | 25.4 | 27.8 | 27.7 | 19.2 | 9.7 | 7.7 | 8.8 | 8.4 |
| All ages, crude | 10.2 | 18.5 | 25.5 | 28.0 | 28.0 | 19.5 | 9.8 | 7.8 | 8.9 | 8.4 |
| Under 1 year | 2.2 | 2.4 | 2.1 | 2.1 | 1.7 | 1.1 | * | * | * | * |
| 1–4 years | 0.7 | 0.8 | 1.3 | 1.2 | 1.2 | 0.9 | 0.3 | * | * | * |
| 5–14 years | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.5 | 0.3 | 0.1 | 0.1 | 0.2 |
| 15–24 years | 2.2 | 2.2 | 2.3 | 2.3 | 2.1 | 1.3 | 0.8 | 0.5 | 0.6 | 0.5 |
| 25–34 years | 20.7 | 34.5 | 46.0 | 48.5 | 47.1 | 31.4 | 15.1 | 10.7 | 12.2 | 10.2 |
| 35–44 years | 26.3 | 50.2 | 68.5 | 76.2 | 75.9 | 51.8 | 25.5 | 20.1 | 23.0 | 21.1 |
| 45–54 years | 15.5 | 29.1 | 41.7 | 46.3 | 46.9 | 33.6 | 17.4 | 15.2 | 17.4 | 17.9 |
| 55–64 years | 6.8 | 12.0 | 16.5 | 19.1 | 19.9 | 14.9 | 8.5 | 7.3 | 8.4 | 8.5 |
| 65–74 years | 2.4 | 3.7 | 5.4 | 5.8 | 6.4 | 5.1 | 3.4 | 2.9 | 3.3 | 3.9 |
| 75–84 years | 1.2 | 1.1 | 1.4 | 1.4 | 1.3 | 1.5 | 1.0 | 0.9 | 1.0 | 1.0 |
| 85 years and over | * | * | * | * | * | * | * | * | * | * |
| Female | | | | | | | | | | |
| All ages, age adjusted | 1.1 | 2.2 | 3.9 | 4.9 | 5.3 | 4.3 | 2.7 | 2.3 | 2.6 | 2.6 |
| All ages, crude | 1.1 | 2.2 | 3.9 | 4.9 | 5.3 | 4.3 | 2.7 | 2.3 | 2.6 | 2.6 |
| Under 1 year | 2.5 | 3.0 | 2.4 | 2.9 | 1.2 | * | * | * | * | * |
| 1–4 years | 0.7 | 0.8 | 1.3 | 1.3 | 1.5 | 1.0 | 0.4 | * | * | * |
| 5–14 years | * | 0.2 | 0.4 | 0.5 | 0.5 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 |
| 15–24 years | 0.3 | 0.7 | 1.1 | 1.3 | 1.4 | 1.0 | 0.7 | 0.6 | 0.7 | 0.6 |
| 25–34 years | 2.8 | 4.9 | 8.0 | 10.1 | 11.1 | 8.5 | 5.1 | 4.4 | 5.0 | 4.3 |
| 35–44 years | 2.1 | 5.2 | 10.2 | 12.5 | 13.4 | 11.3 | 6.8 | 5.8 | 6.6 | 6.8 |
| 45–54 years | 0.8 | 1.9 | 4.4 | 5.8 | 6.7 | 5.7 | 3.8 | 3.1 | 3.5 | 4.2 |
| 55–64 years | 0.5 | 1.1 | 1.9 | 2.6 | 2.9 | 2.5 | 1.6 | 1.6 | 1.8 | 1.6 |
| 65–74 years | 0.5 | 0.8 | 1.0 | 1.0 | 1.4 | 0.8 | 0.5 | 0.6 | 0.7 | 0.8 |
| 75–84 years | 0.5 | 0.4 | 0.4 | 0.6 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 |
| 85 years and over | * | * | * | * | * | * | * | * | * | * |
| All ages, age adjusted | | | | | | | | | | |
| White male | 8.7 | 15.7 | 20.0 | 21.2 | 20.7 | 13.2 | 6.0 | 4.6 | 5.3 | 5.0 |
| Black male | 26.2 | 46.3 | 74.5 | 87.2 | 90.4 | 71.5 | 41.7 | 34.0 | 38.9 | 37.1 |
| American Indian or Alaska Native male | * | 3.3 | 8.3 | 9.5 | 11.6 | 7.1 | 3.8 | 4.0 | 4.6 | 5.0 |
| Asian or Pacific Islander male | 2.5 | 4.3 | 5.5 | 7.0 | 6.3 | 4.5 | 1.7 | 1.4 | 1.6 | 1.5 |
| Hispanic male ³ | 18.8 | 28.8 | 35.9 | 42.4 | 42.0 | 28.2 | 14.2 | 10.7 | 12.2 | 11.5 |
| White, non-Hispanic male ³ | 10.7 | 14.1 | 17.5 | 18.7 | 18.0 | 11.3 | 4.9 | 3.8 | 4.4 | 4.1 |
| White female | 0.6 | 1.1 | 1.9 | 2.3 | 2.5 | 1.9 | 1.0 | 0.8 | 0.9 | 1.0 |
| Black female | 4.6 | 10.1 | 17.8 | 22.6 | 24.7 | 21.1 | 13.9 | 12.2 | 14.0 | 13.4 |
| American Indian or Alaska Native female | * | * | * | * | 2.7 | * | * | * | * | * |
| Asian or Pacific Islander female | * | * | 0.8 | 0.7 | 0.7 | 0.5 | * | * | * | * |
| Hispanic female ³ | 2.1 | 3.8 | 6.8 | 8.1 | 9.0 | 6.5 | 3.5 | 2.8 | 3.2 | 3.1 |
| White, non-Hispanic female ³ | 0.5 | 0.7 | 1.3 | 1.6 | 1.8 | 1.3 | 0.7 | 0.5 | 0.6 | 0.7 |

See footnotes at end of table.

Table 43 (page 2 of 2). Death rates for human immunodeficiency virus (HIV) disease, according to sex, race, Hispanic origin, and age: United States, selected years 1987–99

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and age | 1987 | 1990 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | Comparability modified 1998 ¹ | 1999 ² |
|------------------------------------------------------|------|-------|-------|-------|-------|-------|------|------|------------------------------------------------|-------------------|
| Deaths per 100,000 resident population | | | | | | | | | | |
| Age 25–44 years | | | | | | | | | | |
| All persons | 12.7 | 23.2 | 32.9 | 36.7 | 36.9 | 25.9 | 13.2 | 10.4 | 11.9 | 10.8 |
| White male | 19.2 | 35.0 | 45.5 | 48.4 | 46.9 | 29.6 | 13.2 | 9.9 | 11.3 | 10.1 |
| Black male | 60.2 | 102.0 | 155.3 | 178.0 | 182.0 | 139.1 | 76.7 | 59.4 | 68.0 | 60.7 |
| American Indian or Alaska Native male | * | 7.7 | 20.9 | 23.6 | 31.3 | 18.4 | 10.7 | 8.7 | 10.0 | 10.8 |
| Asian or Pacific Islander male | 4.1 | 8.1 | 10.8 | 13.8 | 12.8 | 8.1 | 3.6 | 2.6 | 3.0 | 2.6 |
| Hispanic male ³ | 36.8 | 59.3 | 71.0 | 78.0 | 78.9 | 50.5 | 24.9 | 18.9 | 21.6 | 19.1 |
| White, non-Hispanic male ³ | 23.3 | 31.6 | 40.2 | 43.4 | 41.5 | 25.8 | 11.0 | 8.2 | 9.4 | 8.3 |
| White female | 1.2 | 2.3 | 4.4 | 5.5 | 6.0 | 4.4 | 2.4 | 1.8 | 2.1 | 2.2 |
| Black female | 11.6 | 23.6 | 40.4 | 49.8 | 54.5 | 46.6 | 29.3 | 26.1 | 29.9 | 27.2 |
| American Indian or Alaska Native female | * | * | * | * | * | * | * | * | * | * |
| Asian or Pacific Islander female | * | * | 1.2 | 1.5 | 1.2 | * | * | * | * | * |
| Hispanic female ³ | 4.9 | 8.9 | 14.2 | 17.3 | 18.0 | 12.8 | 6.7 | 5.0 | 5.7 | 5.8 |
| White, non-Hispanic female ³ | 1.0 | 1.5 | 2.9 | 3.9 | 4.2 | 3.1 | 1.7 | 1.3 | 1.5 | 1.6 |
| Age 45–64 years | | | | | | | | | | |
| All persons | 5.8 | 11.1 | 16.8 | 19.3 | 20.1 | 15.0 | 8.3 | 7.2 | 8.2 | 8.5 |
| White male | 9.9 | 18.6 | 24.7 | 26.4 | 26.3 | 17.4 | 8.0 | 6.8 | 7.8 | 8.0 |
| Black male | 27.3 | 53.0 | 101.2 | 127.1 | 136.6 | 114.1 | 71.8 | 63.5 | 72.7 | 74.2 |
| American Indian or Alaska Native male | * | * | * | * | * | * | * | * | * | * |
| Asian or Pacific Islander male | * | 6.5 | 9.2 | 10.6 | 9.5 | 8.2 | 2.4 | 2.5 | 2.9 | 2.4 |
| Hispanic male ³ | 25.8 | 37.9 | 52.2 | 69.2 | 67.1 | 48.8 | 24.7 | 18.5 | 21.2 | 21.4 |
| White, non-Hispanic male ³ | 12.6 | 16.9 | 21.5 | 22.6 | 22.6 | 14.3 | 6.4 | 5.5 | 6.3 | 6.5 |
| White female | 0.5 | 0.9 | 1.8 | 2.1 | 2.4 | 1.9 | 1.1 | 0.9 | 1.0 | 1.2 |
| Black female | 2.6 | 7.5 | 16.5 | 24.1 | 27.2 | 24.4 | 17.6 | 15.5 | 17.7 | 18.8 |
| American Indian or Alaska Native female | * | * | * | * | * | * | * | * | * | * |
| Asian or Pacific Islander female | * | * | * | * | * | * | * | * | * | * |
| Hispanic female ³ | * | 3.1 | 8.2 | 9.9 | 12.4 | 9.7 | 5.3 | 4.9 | 5.6 | 5.0 |
| White, non-Hispanic female ³ | 0.5 | 0.7 | 1.1 | 1.4 | 1.5 | 1.2 | 0.7 | 0.5 | 0.6 | 0.8 |

* Based on fewer than 20 deaths.

¹Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

²Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

³Data shown only for States with an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. Categories for the coding and classification of human immunodeficiency virus (HIV) disease were introduced in the United States in 1987. See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for Hispanic and non-Hispanic white for 1987–89, 1991 were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. *Vital statistics of the United States, vol II, mortality, part A*, for data years 1987–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 44. Maternal mortality for complications of pregnancy, childbirth, and the puerperium, according to race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>1999²</i> |
|--------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
| Number of deaths | | | | | | | | | | |
| All persons | 2,960 | 1,579 | 803 | 334 | 343 | 277 | 294 | 327 | 281 | 391 |
| White | 1,873 | 936 | 445 | 193 | 177 | 129 | 159 | 179 | 158 | 214 |
| Black | 1,041 | 624 | 342 | 127 | 153 | 133 | 121 | 125 | 104 | 154 |
| American Indian or Alaska Native | --- | --- | --- | 3 | 4 | 1 | 6 | 2 | 2 | 5 |
| Asian or Pacific Islander | --- | --- | --- | 11 | 9 | 14 | 8 | 21 | 17 | 18 |
| Hispanic ³ | --- | --- | --- | --- | 47 | 43 | 39 | 57 | 42 | 67 |
| White, non-Hispanic ³ | --- | --- | --- | --- | 125 | 84 | 114 | 121 | 116 | 149 |
| Deaths per 100,000 live births | | | | | | | | | | |
| All persons | 73.7 | 32.1 | 21.5 | 9.4 | 7.6 | 6.3 | 6.4 | 7.6 | 6.1 | 8.3 |
| All ages, crude | 83.3 | 37.1 | 21.5 | 9.2 | 8.2 | 7.1 | 7.6 | 8.4 | 7.1 | 9.9 |
| Under 20 years | 70.7 | 22.7 | 18.9 | 7.6 | 7.5 | 3.9 | * | 5.7 | * | 6.6 |
| 20–24 years | 47.6 | 20.7 | 13.0 | 5.8 | 6.1 | 5.7 | 5.0 | 6.6 | 5.0 | 6.2 |
| 25–29 years | 63.5 | 29.8 | 17.0 | 7.7 | 6.0 | 6.0 | 6.6 | 7.9 | 6.7 | 8.2 |
| 30–34 years | 107.7 | 50.3 | 31.6 | 13.6 | 9.5 | 7.3 | 7.6 | 8.3 | 7.5 | 10.1 |
| 35 years and over ⁴ | 222.0 | 104.3 | 81.9 | 36.3 | 20.7 | 15.9 | 19.0 | 16.1 | 14.5 | 23.0 |
| White | | | | | | | | | | |
| All ages, age adjusted | 53.1 | 22.4 | 14.4 | 6.7 | 5.1 | 3.6 | 4.1 | 5.2 | 4.2 | 5.5 |
| All ages, crude | 61.1 | 26.0 | 14.3 | 6.6 | 5.4 | 4.2 | 5.1 | 5.8 | 5.1 | 6.8 |
| Under 20 years | 44.9 | 14.8 | 13.8 | 5.8 | * | * | * | * | * | * |
| 20–24 years | 35.7 | 15.3 | 8.4 | 4.2 | 3.9 | 3.5 | * | 4.2 | 3.1 | 4.0 |
| 25–29 years | 45.0 | 20.3 | 11.1 | 5.4 | 4.8 | 4.0 | 4.0 | 5.4 | 4.9 | 5.4 |
| 30–34 years | 75.9 | 34.3 | 18.7 | 9.3 | 5.0 | 4.0 | 5.0 | 5.4 | 4.9 | 7.0 |
| 35 years and over ⁴ | 174.1 | 73.9 | 59.3 | 25.5 | 12.6 | 9.1 | 14.9 | 11.5 | 11.0 | 16.6 |
| Black | | | | | | | | | | |
| All ages, age adjusted | --- | 92.0 | 65.5 | 24.9 | 21.7 | 20.9 | 19.9 | 20.1 | 16.1 | 23.3 |
| All ages, crude | --- | 103.6 | 60.9 | 22.4 | 22.4 | 22.1 | 20.3 | 20.8 | 17.1 | 25.4 |
| Under 20 years | --- | 54.8 | 32.3 | 13.1 | * | * | * | * | * | * |
| 20–24 years | --- | 56.9 | 41.9 | 13.9 | 14.7 | 15.3 | 15.1 | 15.3 | 12.7 | 14.0 |
| 25–29 years | --- | 92.8 | 65.2 | 22.4 | 14.9 | 21.0 | 25.5 | 24.3 | 17.2 | 26.6 |
| 30–34 years | --- | 150.6 | 117.8 | 44.0 | 44.2 | 31.2 | 28.6 | 32.9 | 27.7 | 36.1 |
| 35 years and over ⁴ | --- | 299.5 | 207.5 | 100.6 | 79.7 | 61.4 | 49.9 | 40.4 | 37.2 | 69.9 |
| Hispanic ^{3,5} | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 7.4 | 5.4 | 4.8 | 7.6 | 5.2 | 7.9 |
| All ages, crude | --- | --- | --- | --- | 7.9 | 6.3 | 5.6 | 8.0 | 5.7 | 8.8 |
| White, non-Hispanic ³ | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 4.4 | 3.3 | 3.9 | 4.4 | 4.0 | 4.9 |
| All ages, crude | --- | --- | --- | --- | 4.8 | 3.5 | 4.8 | 5.2 | 4.9 | 6.4 |

--- Data not available.

* Based on fewer than 20 deaths.

¹Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

²Starting with 1999 data, changes have been made in the classification and coding of maternal deaths under ICD–10. The large increase in the number of maternal deaths between 1998 and 1999 is due to changes associated with ICD–10. See Appendix II, *International Classification of Diseases (ICD)*; and Rate: Death and related rates.

³Excludes data from States lacking an Hispanic-origin item on their death and birth certificates. See Appendix I, National Vital Statistics System.

⁴Rates computed by relating deaths of women 35 years and over to live births to women 35–49 years.

⁵Age-specific maternal mortality rates are not calculated because rates based on fewer than 20 deaths are unreliable.

NOTES: Rates are age adjusted to the 1970 distribution of live births by mother's age in the United States. See Appendix II, Age adjustment. For data years shown, the code numbers for cause of death are based on the then current *International Classification of Diseases*, described in Appendix II, tables IV and V. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. For 1950 and 1960, rates are based on live births by race of child; for all other years, rates are based on live births by race of mother. See Appendix I, National Vital Statistics System. Rates are not calculated for American Indian or Alaska Native and Asian or Pacific Islander mothers because rates based on fewer than 20 deaths are unreliable. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. *Vital statistics of the United States, vol I, natality and vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington. U.S. Government Printing Office; for 1994–99, unpublished data.

Table 45 (page 1 of 4). Death rates for motor vehicle-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|------------------------------------------------|----------------------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| All persons | Deaths per 100,000 resident population | | | | | | | | | | |
| All ages, age adjusted | 24.6 | 23.1 | 27.6 | 22.3 | 18.5 | 16.5 | 16.5 | 16.3 | 16.1 | 15.7 | 15.5 |
| All ages, crude | 23.1 | 21.3 | 26.9 | 23.5 | 18.8 | 16.5 | 16.5 | 16.2 | 16.1 | 15.7 | 15.5 |
| Under 1 year. | 8.4 | 8.1 | 9.8 | 7.0 | 4.9 | 4.7 | 5.7 | 4.3 | 4.3 | 4.2 | 4.8 |
| 1–14 years | 9.8 | 8.6 | 10.5 | 8.2 | 6.0 | 5.3 | 5.2 | 5.1 | 4.8 | 4.7 | 4.4 |
| 1–4 years | 11.5 | 10.0 | 11.5 | 9.2 | 6.3 | 5.2 | 5.3 | 5.0 | 5.0 | 4.9 | 4.3 |
| 5–14 years | 8.8 | 7.9 | 10.2 | 7.9 | 5.9 | 5.4 | 5.2 | 5.1 | 4.8 | 4.7 | 4.5 |
| 15–24 years | 34.4 | 38.0 | 47.2 | 44.8 | 34.1 | 29.5 | 29.2 | 27.9 | 26.9 | 26.2 | 26.8 |
| 25–34 years | 24.6 | 24.3 | 30.9 | 29.1 | 23.6 | 19.8 | 19.1 | 18.9 | 18.4 | 17.9 | 17.9 |
| 35–44 years | 20.3 | 19.3 | 24.9 | 20.9 | 16.9 | 15.4 | 15.6 | 15.2 | 15.6 | 15.2 | 15.0 |
| 45–64 years | 25.2 | 23.0 | 26.5 | 18.0 | 15.7 | 14.2 | 14.4 | 14.7 | 14.7 | 14.3 | 14.1 |
| 45–54 years. | 22.2 | 21.4 | 25.5 | 18.6 | 15.6 | 13.9 | 14.1 | 14.3 | 14.4 | 14.0 | 13.9 |
| 55–64 years. | 29.0 | 25.1 | 27.9 | 17.4 | 15.9 | 14.6 | 15.0 | 15.3 | 15.1 | 14.7 | 14.4 |
| 65 years and over | 43.1 | 34.7 | 36.2 | 22.5 | 23.1 | 22.7 | 23.0 | 23.6 | 23.7 | 23.1 | 22.5 |
| 65–74 years. | 39.1 | 31.4 | 32.8 | 19.2 | 18.6 | 17.6 | 18.3 | 18.2 | 18.5 | 18.0 | 18.0 |
| 75–84 years. | 52.7 | 41.8 | 43.5 | 28.1 | 29.1 | 28.6 | 28.3 | 29.0 | 28.9 | 28.2 | 26.7 |
| 85 years and over | 45.1 | 37.9 | 34.2 | 27.6 | 31.2 | 31.4 | 30.1 | 32.7 | 31.5 | 30.7 | 30.2 |
| Male | | | | | | | | | | | |
| All ages, age adjusted | 38.5 | 35.4 | 41.5 | 33.6 | 26.5 | 23.1 | 22.8 | 22.4 | 22.4 | 21.8 | 21.8 |
| All ages, crude | 35.4 | 31.8 | 39.7 | 35.3 | 26.7 | 22.7 | 22.4 | 22.0 | 22.0 | 21.5 | 21.4 |
| Under 1 year. | 9.1 | 8.6 | 9.3 | 7.3 | 5.0 | 4.9 | 5.7 | 4.3 | 4.6 | 4.5 | 5.0 |
| 1–14 years | 12.3 | 10.7 | 13.0 | 10.0 | 7.0 | 6.2 | 5.9 | 5.7 | 5.6 | 5.5 | 5.1 |
| 1–4 years | 13.0 | 11.5 | 12.9 | 10.2 | 6.9 | 5.6 | 5.7 | 5.3 | 5.4 | 5.3 | 4.7 |
| 5–14 years | 11.9 | 10.4 | 13.1 | 9.9 | 7.0 | 6.4 | 6.0 | 5.8 | 5.7 | 5.6 | 5.3 |
| 15–24 years | 56.7 | 61.2 | 73.2 | 68.4 | 49.5 | 41.4 | 40.7 | 38.1 | 37.3 | 36.4 | 36.9 |
| 25–34 years | 40.8 | 40.1 | 49.4 | 46.3 | 35.7 | 29.1 | 27.5 | 27.5 | 27.0 | 26.3 | 26.5 |
| 35–44 years | 32.5 | 29.9 | 37.7 | 31.7 | 24.7 | 21.9 | 21.8 | 21.2 | 21.7 | 21.2 | 21.3 |
| 45–64 years | 37.7 | 33.3 | 38.9 | 26.5 | 21.9 | 19.7 | 19.8 | 20.0 | 20.4 | 19.9 | 19.8 |
| 45–54 years. | 33.6 | 31.6 | 37.2 | 27.6 | 22.0 | 19.6 | 19.6 | 19.9 | 20.3 | 19.8 | 19.8 |
| 55–64 years. | 43.1 | 35.6 | 40.9 | 25.4 | 21.7 | 19.8 | 20.1 | 20.2 | 20.5 | 20.0 | 19.7 |
| 65 years and over | 66.6 | 52.1 | 54.4 | 33.9 | 32.1 | 30.8 | 31.4 | 31.9 | 32.1 | 31.3 | 31.3 |
| 65–74 years. | 59.1 | 45.8 | 47.3 | 27.3 | 24.2 | 22.3 | 23.9 | 23.6 | 23.5 | 22.9 | 23.6 |
| 75–84 years. | 85.0 | 66.0 | 68.2 | 44.3 | 41.2 | 39.7 | 38.7 | 39.7 | 39.7 | 38.7 | 37.5 |
| 85 years and over | 78.1 | 62.7 | 63.1 | 56.1 | 64.5 | 61.9 | 59.0 | 60.4 | 61.2 | 59.7 | 57.6 |
| Female | | | | | | | | | | | |
| All ages, age adjusted | 11.5 | 11.7 | 14.9 | 11.8 | 11.0 | 10.4 | 10.6 | 10.6 | 10.3 | 10.0 | 9.8 |
| All ages, crude | 10.9 | 11.0 | 14.7 | 12.3 | 11.3 | 10.6 | 10.7 | 10.8 | 10.5 | 10.2 | 9.9 |
| Under 1 year. | 7.6 | 7.5 | 10.4 | 6.7 | 4.9 | 4.4 | 5.8 | 4.4 | 4.0 | 3.9 | 4.7 |
| 1–14 years | 7.2 | 6.3 | 7.9 | 6.3 | 4.9 | 4.5 | 4.4 | 4.4 | 4.0 | 3.9 | 3.7 |
| 1–4 years | 10.0 | 8.4 | 10.0 | 8.1 | 5.6 | 4.8 | 4.8 | 4.7 | 4.6 | 4.5 | 3.8 |
| 5–14 years | 5.7 | 5.4 | 7.2 | 5.7 | 4.7 | 4.3 | 4.2 | 4.3 | 3.8 | 3.7 | 3.7 |
| 15–24 years | 12.6 | 15.1 | 21.6 | 20.8 | 17.9 | 17.1 | 17.1 | 17.1 | 16.1 | 15.7 | 16.3 |
| 25–34 years | 9.3 | 9.2 | 13.0 | 12.2 | 11.5 | 10.4 | 10.7 | 10.4 | 9.9 | 9.7 | 9.3 |
| 35–44 years | 8.5 | 9.1 | 12.9 | 10.4 | 9.2 | 9.0 | 9.4 | 9.2 | 9.7 | 9.5 | 8.9 |
| 45–64 years | 12.6 | 13.1 | 15.3 | 10.3 | 10.1 | 9.1 | 9.4 | 9.6 | 9.3 | 9.1 | 8.7 |
| 45–54 years. | 10.9 | 11.6 | 14.5 | 10.2 | 9.6 | 8.5 | 8.8 | 8.9 | 8.8 | 8.6 | 8.2 |
| 55–64 years. | 14.9 | 15.2 | 16.2 | 10.5 | 10.8 | 9.9 | 10.3 | 10.8 | 10.1 | 9.9 | 9.6 |
| 65 years and over | 21.9 | 20.3 | 23.1 | 15.0 | 17.2 | 17.2 | 17.2 | 17.8 | 17.8 | 17.4 | 16.4 |
| 65–74 years. | 20.6 | 19.0 | 21.6 | 13.0 | 14.1 | 13.8 | 13.9 | 13.8 | 14.5 | 14.1 | 13.4 |
| 75–84 years. | 25.2 | 23.0 | 27.2 | 18.5 | 21.9 | 21.5 | 21.5 | 22.0 | 21.8 | 21.3 | 19.5 |
| 85 years and over | 22.1 | 22.0 | 18.0 | 15.2 | 18.3 | 19.6 | 18.6 | 21.5 | 19.2 | 18.7 | 18.6 |
| White male | | | | | | | | | | | |
| All ages, age adjusted | 37.9 | 34.8 | 40.4 | 33.8 | 26.3 | 22.9 | 22.7 | 22.2 | 22.2 | 21.7 | 21.8 |
| All ages, crude | 35.1 | 31.5 | 39.1 | 35.9 | 26.7 | 22.6 | 22.4 | 21.9 | 21.9 | 21.4 | 21.5 |
| Under 1 year. | 9.1 | 8.8 | 9.1 | 7.0 | 4.8 | 4.3 | 5.2 | 3.7 | 4.6 | 4.5 | 5.0 |
| 1–14 years | 12.4 | 10.6 | 12.5 | 9.8 | 6.6 | 5.9 | 5.7 | 5.4 | 5.1 | 5.0 | 4.9 |
| 15–24 years | 58.3 | 62.7 | 75.2 | 73.8 | 52.5 | 43.2 | 42.2 | 39.8 | 39.4 | 38.4 | 38.6 |
| 25–34 years | 39.1 | 38.6 | 47.0 | 46.6 | 35.4 | 28.8 | 27.0 | 26.8 | 26.3 | 25.7 | 26.4 |
| 35–44 years | 30.9 | 28.4 | 35.2 | 30.7 | 23.7 | 21.1 | 21.4 | 20.7 | 21.2 | 20.7 | 20.9 |
| 45–64 years | 36.2 | 31.7 | 36.5 | 25.2 | 20.6 | 18.9 | 19.2 | 19.2 | 19.6 | 19.1 | 19.1 |
| 65 years and over | 67.1 | 52.1 | 54.2 | 32.7 | 31.4 | 30.2 | 31.1 | 31.8 | 31.9 | 31.1 | 31.3 |

See footnotes at end of table.

Table 45 (page 2 of 4). Death rates for motor vehicle-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|--------------------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| Black male | | | | | | | | | | | |
| All ages, age adjusted | 34.8 | 39.6 | 51.0 | 34.2 | 29.9 | 26.4 | 25.9 | 25.6 | 26.2 | 25.6 | 24.7 |
| All ages, crude | 37.2 | 33.1 | 44.3 | 31.1 | 28.1 | 24.6 | 24.3 | 24.2 | 24.5 | 23.9 | 23.1 |
| Under 1 year | --- | * | 10.6 | 7.8 | * | 8.3 | 7.6 | 7.8 | * | * | * |
| 1–14 years ⁴ | 10.4 | 11.2 | 16.3 | 11.4 | 8.9 | 7.8 | 7.6 | 7.6 | 8.5 | 8.3 | 6.8 |
| 15–24 years | 42.5 | 46.4 | 58.1 | 34.9 | 36.1 | 34.3 | 35.2 | 32.7 | 30.3 | 29.6 | 30.7 |
| 25–34 years | 54.4 | 51.0 | 70.4 | 44.9 | 39.5 | 32.9 | 32.5 | 33.2 | 34.5 | 33.7 | 30.8 |
| 35–44 years | 46.7 | 43.6 | 59.5 | 41.2 | 33.5 | 28.9 | 26.6 | 27.0 | 26.9 | 26.2 | 26.5 |
| 45–64 years | 54.6 | 47.8 | 61.7 | 39.5 | 33.3 | 26.9 | 26.8 | 28.9 | 29.0 | 28.3 | 27.8 |
| 65 years and over | 52.6 | 48.2 | 53.4 | 42.4 | 36.3 | 36.3 | 35.6 | 32.3 | 36.0 | 35.1 | 32.3 |
| American Indian or Alaska Native male⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 78.9 | 48.3 | 43.8 | 44.4 | 43.5 | 41.1 | 40.1 | 42.6 |
| All ages, crude | --- | --- | --- | 74.6 | 47.6 | 43.8 | 44.2 | 42.2 | 39.9 | 38.9 | 40.5 |
| 1–14 years | --- | --- | --- | 15.1 | 11.6 | 8.5 | 13.5 | 8.2 | 10.1 | 9.9 | 9.4 |
| 15–24 years | --- | --- | --- | 126.1 | 75.2 | 76.6 | 69.6 | 67.6 | 60.4 | 58.9 | 69.1 |
| 25–34 years | --- | --- | --- | 107.0 | 78.2 | 73.1 | 70.5 | 64.3 | 55.9 | 54.5 | 47.1 |
| 35–44 years | --- | --- | --- | 82.8 | 57.0 | 50.4 | 48.8 | 54.7 | 51.3 | 50.0 | 47.2 |
| 45–64 years | --- | --- | --- | 77.4 | 45.9 | 42.5 | 39.8 | 37.8 | 44.5 | 43.4 | 47.1 |
| 65 years and over | --- | --- | --- | 97.0 | 43.0 | * | 43.5 | 50.1 | 36.2 | 35.3 | 51.1 |
| Asian or Pacific Islander male⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 19.0 | 17.9 | 15.7 | 12.5 | 13.2 | 12.1 | 11.8 | 10.5 |
| All ages, crude | --- | --- | --- | 17.1 | 15.8 | 13.1 | 11.5 | 11.4 | 10.8 | 10.5 | 9.4 |
| 1–14 years | --- | --- | --- | 8.2 | 6.3 | 4.3 | 2.9 | 2.7 | 3.2 | 3.1 | 2.3 |
| 15–24 years | --- | --- | --- | 27.2 | 25.7 | 20.6 | 22.4 | 15.7 | 16.3 | 15.9 | 16.8 |
| 25–34 years | --- | --- | --- | 18.8 | 17.0 | 13.2 | 13.3 | 15.7 | 12.5 | 12.2 | 11.0 |
| 35–44 years | --- | --- | --- | 13.1 | 12.2 | 10.4 | 9.9 | 8.5 | 9.3 | 9.1 | 7.7 |
| 45–64 years | --- | --- | --- | 13.7 | 15.1 | 15.0 | 9.7 | 12.1 | 12.3 | 12.0 | 9.0 |
| 65 years and over | --- | --- | --- | 37.3 | 33.6 | 34.4 | 23.9 | 31.0 | 22.9 | 22.3 | 21.7 |
| Hispanic male⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 29.5 | 25.3 | 24.0 | 22.1 | 22.2 | 21.7 | 21.9 |
| All ages, crude | --- | --- | --- | --- | 29.2 | 23.5 | 22.3 | 20.8 | 20.8 | 20.3 | 21.2 |
| 1–14 years | --- | --- | --- | --- | 7.2 | 5.8 | 5.6 | 5.1 | 5.4 | 5.3 | 4.9 |
| 15–24 years | --- | --- | --- | --- | 48.2 | 42.4 | 37.5 | 35.3 | 36.0 | 35.1 | 37.9 |
| 25–34 years | --- | --- | --- | --- | 41.0 | 31.6 | 28.0 | 27.4 | 27.4 | 26.7 | 30.7 |
| 35–44 years | --- | --- | --- | --- | 28.0 | 23.8 | 23.9 | 22.9 | 21.5 | 21.0 | 21.9 |
| 45–64 years | --- | --- | --- | --- | 28.9 | 23.0 | 23.8 | 21.3 | 21.5 | 21.0 | 20.0 |
| 65 years and over | --- | --- | --- | --- | 35.3 | 35.1 | 35.2 | 28.6 | 31.3 | 30.5 | 27.3 |
| White, non-Hispanic male⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 25.7 | 22.2 | 22.1 | 21.9 | 21.9 | 21.4 | 21.3 |
| All ages, crude | --- | --- | --- | --- | 26.0 | 22.0 | 21.9 | 21.7 | 21.7 | 21.2 | 21.2 |
| 1–14 years | --- | --- | --- | --- | 6.4 | 5.8 | 5.5 | 5.4 | 5.0 | 4.9 | 4.8 |
| 15–24 years | --- | --- | --- | --- | 52.3 | 42.3 | 42.0 | 40.1 | 39.4 | 38.4 | 38.0 |
| 25–34 years | --- | --- | --- | --- | 34.0 | 27.5 | 26.1 | 26.2 | 25.5 | 24.9 | 25.0 |
| 35–44 years | --- | --- | --- | --- | 23.1 | 20.3 | 20.5 | 20.0 | 20.8 | 20.3 | 20.4 |
| 45–64 years | --- | --- | --- | --- | 19.8 | 18.2 | 18.4 | 18.8 | 19.2 | 18.7 | 18.8 |
| 65 years and over | --- | --- | --- | --- | 31.1 | 29.6 | 30.5 | 31.7 | 31.8 | 31.0 | 31.3 |
| White female | | | | | | | | | | | |
| All ages, age adjusted | 11.4 | 11.7 | 14.9 | 12.2 | 11.2 | 10.6 | 10.7 | 10.6 | 10.4 | 10.1 | 9.9 |
| All ages, crude | 10.9 | 11.2 | 14.8 | 12.8 | 11.6 | 10.8 | 11.0 | 10.9 | 10.7 | 10.4 | 10.1 |
| Under 1 year | 7.8 | 7.5 | 10.2 | 7.1 | 4.7 | 4.5 | 5.7 | 4.3 | 3.3 | 3.2 | 3.8 |
| 1–14 years | 7.2 | 6.2 | 7.5 | 6.2 | 4.8 | 4.3 | 4.3 | 4.1 | 3.9 | 3.8 | 3.6 |
| 15–24 years | 12.6 | 15.6 | 22.7 | 23.0 | 19.5 | 18.4 | 18.1 | 18.4 | 17.3 | 16.9 | 17.3 |
| 25–34 years | 9.0 | 9.0 | 12.7 | 12.2 | 11.6 | 10.4 | 10.8 | 10.3 | 10.0 | 9.8 | 9.4 |
| 35–44 years | 8.1 | 8.9 | 12.3 | 10.6 | 9.2 | 9.0 | 9.3 | 9.0 | 9.6 | 9.4 | 8.8 |
| 45–64 years | 12.7 | 13.1 | 15.1 | 10.4 | 9.9 | 8.9 | 9.3 | 9.4 | 9.1 | 8.9 | 8.6 |
| 65 years and over | 22.2 | 20.8 | 23.7 | 15.3 | 17.4 | 17.7 | 17.4 | 17.9 | 18.1 | 17.7 | 16.7 |

See footnotes at end of table.

Table 45 (page 3 of 4). Death rates for motor vehicle-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|----------------------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Black female | | | | | | | | | | | |
| Deaths per 100,000 resident population | | | | | | | | | | | |
| All ages, age adjusted | 9.3 | 10.4 | 14.1 | 8.5 | 9.6 | 9.1 | 9.6 | 10.2 | 9.7 | 9.5 | 9.2 |
| All ages, crude | 10.2 | 9.7 | 13.4 | 8.3 | 9.4 | 9.0 | 9.5 | 9.9 | 9.3 | 9.1 | 9.0 |
| Under 1 year | --- | 8.1 | 11.9 | * | 7.0 | * | 7.8 | * | 9.4 | 9.2 | 9.3 |
| 1–14 years ⁴ | 7.2 | 6.9 | 10.2 | 6.3 | 5.3 | 5.1 | 4.8 | 5.6 | 4.8 | 4.7 | 4.8 |
| 15–24 years | 11.6 | 9.9 | 13.4 | 8.0 | 9.9 | 10.7 | 13.3 | 11.3 | 10.3 | 10.0 | 12.1 |
| 25–34 years | 10.8 | 9.8 | 13.3 | 10.6 | 11.1 | 10.5 | 10.9 | 11.2 | 8.9 | 8.7 | 8.9 |
| 35–44 years | 11.1 | 11.0 | 16.1 | 8.3 | 9.4 | 9.8 | 9.6 | 10.2 | 11.1 | 10.8 | 9.7 |
| 45–64 years | 11.8 | 12.7 | 16.7 | 9.2 | 10.7 | 9.4 | 8.9 | 11.0 | 10.6 | 10.3 | 9.0 |
| 65 years and over | 14.3 | 13.2 | 15.7 | 9.5 | 13.5 | 11.5 | 13.1 | 14.2 | 13.8 | 13.5 | 13.0 |
| American Indian or Alaska Native female⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 32.0 | 17.5 | 19.7 | 22.6 | 22.4 | 23.0 | 22.4 | 21.4 |
| All ages, crude | --- | --- | --- | 32.0 | 17.3 | 20.4 | 21.8 | 20.9 | 22.3 | 21.8 | 20.6 |
| 1–14 years | --- | --- | --- | 15.0 | 8.1 | 9.1 | 9.7 | 10.0 | 9.4 | 9.2 | * |
| 15–24 years | --- | --- | --- | 42.3 | 31.4 | 32.7 | 27.1 | 24.5 | 30.4 | 29.7 | 28.6 |
| 25–34 years | --- | --- | --- | 52.5 | 18.8 | 36.7 | 31.9 | 27.6 | 33.4 | 32.6 | 32.8 |
| 35–44 years | --- | --- | --- | 38.1 | 18.2 | 19.4 | 23.0 | 21.5 | 21.7 | 21.2 | 27.1 |
| 45–64 years | --- | --- | --- | 32.6 | 17.6 | 17.1 | 27.1 | 22.5 | 24.1 | 23.5 | 17.5 |
| 65 years and over | --- | --- | --- | * | * | * | * | 35.7 | 27.7 | 27.0 | 28.0 |
| Asian or Pacific Islander female⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 9.3 | 10.4 | 9.1 | 8.3 | 8.8 | 7.2 | 7.0 | 7.3 |
| All ages, crude | --- | --- | --- | 8.2 | 9.0 | 8.0 | 7.4 | 8.0 | 6.6 | 6.4 | 6.6 |
| 1–14 years | --- | --- | --- | 7.4 | 3.6 | 3.0 | 2.3 | 3.2 | 2.4 | 2.3 | 1.9 |
| 15–24 years | --- | --- | --- | 7.4 | 11.4 | 12.4 | 8.3 | 11.5 | 9.4 | 9.2 | 8.7 |
| 25–34 years | --- | --- | --- | 7.3 | 7.3 | 5.1 | 5.6 | 6.1 | 6.1 | 5.9 | 4.8 |
| 35–44 years | --- | --- | --- | 8.6 | 7.5 | 6.2 | 7.5 | 6.9 | 4.6 | 4.5 | 4.6 |
| 45–64 years | --- | --- | --- | 8.5 | 11.8 | 10.8 | 8.9 | 8.6 | 7.5 | 7.3 | 10.0 |
| 65 years and over | --- | --- | --- | 18.6 | 24.3 | 19.7 | 21.3 | 20.7 | 16.7 | 16.3 | 15.1 |
| Hispanic female⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 9.6 | 8.9 | 9.1 | 8.9 | 8.3 | 8.1 | 8.1 |
| All ages, crude | --- | --- | --- | --- | 8.9 | 8.3 | 8.5 | 8.3 | 7.8 | 7.6 | 7.6 |
| 1–14 years | --- | --- | --- | --- | 4.8 | 4.4 | 4.7 | 3.9 | 3.8 | 3.7 | 3.8 |
| 15–24 years | --- | --- | --- | --- | 11.6 | 12.8 | 11.8 | 13.1 | 11.4 | 11.1 | 11.7 |
| 25–34 years | --- | --- | --- | --- | 9.4 | 7.7 | 9.0 | 8.3 | 8.5 | 8.3 | 8.2 |
| 35–44 years | --- | --- | --- | --- | 8.0 | 8.1 | 7.7 | 8.1 | 7.4 | 7.2 | 6.6 |
| 45–64 years | --- | --- | --- | --- | 11.4 | 9.2 | 9.7 | 9.0 | 9.6 | 9.4 | 8.5 |
| 65 years and over | --- | --- | --- | --- | 14.9 | 13.9 | 13.9 | 14.1 | 11.2 | 10.9 | 12.9 |

See footnotes at end of table.

Table 45 (page 4 of 4). Death rates for motor vehicle-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | Comparability modified 1998 ² | 1999 ³ |
|-----------------------------------------|-------------------|-------------------|------|------|------|------|------|------|------|------------------------------------------------|-------------------|
| White, non-Hispanic female ⁷ | | | | | | | | | | | |
| Deaths per 100,000 resident population | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 11.3 | 10.6 | 10.7 | 10.7 | 10.6 | 10.3 | 10.0 |
| All ages, crude | --- | --- | --- | --- | 11.7 | 10.9 | 11.0 | 11.1 | 11.0 | 10.7 | 10.4 |
| 1–14 years | --- | --- | --- | --- | 4.7 | 4.2 | 4.2 | 4.1 | 3.8 | 3.7 | 3.5 |
| 15–24 years | --- | --- | --- | --- | 20.4 | 19.0 | 18.8 | 19.2 | 18.3 | 17.8 | 18.2 |
| 25–34 years | --- | --- | --- | --- | 11.7 | 10.6 | 10.8 | 10.4 | 10.1 | 9.9 | 9.5 |
| 35–44 years | --- | --- | --- | --- | 9.3 | 8.9 | 9.3 | 9.0 | 9.8 | 9.6 | 9.0 |
| 45–64 years | --- | --- | --- | --- | 9.7 | 8.7 | 9.0 | 9.4 | 9.0 | 8.8 | 8.5 |
| 65 years and over | --- | --- | --- | --- | 17.5 | 17.7 | 17.4 | 18.0 | 18.4 | 17.9 | 16.8 |

--- Data not available.

* Based on fewer than 20 deaths.

¹Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

²Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

³Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

⁴In 1950 rate is for the age group under 15 years.

⁵Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

⁶Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

⁷Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. For data years shown, code numbers for cause of death are based on the then current revision of the *International Classification of Diseases* (ICD). See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for the black population in 1950 and for Hispanic and non-Hispanic white for 1985 (and 1986–89, 1991 available electronically) were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. Grove RD and Hetzel AM. *Vital statistics rates in the United States, 1940–60*. Washington: Public Health Service, 1968; *Vital statistics of the United States, vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 46 (page 1 of 3). Death rates for homicide, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| All persons | | | | | | | | | | | |
| All ages, age adjusted | 5.1 | 5.0 | 8.8 | 10.4 | 9.4 | 8.4 | 7.6 | 7.2 | 6.5 | 6.5 | 6.2 |
| All ages, crude | 5.0 | 4.6 | 8.1 | 10.6 | 9.9 | 8.6 | 7.8 | 7.3 | 6.6 | 6.6 | 6.2 |
| Under 1 year | 4.4 | 4.8 | 4.3 | 5.9 | 8.4 | 8.1 | 8.8 | 8.3 | 8.5 | 8.5 | 8.7 |
| 1–14 years | 0.6 | 0.6 | 1.1 | 1.5 | 1.8 | 1.9 | 1.7 | 1.5 | 1.6 | 1.6 | 1.5 |
| 1–4 years | 0.6 | 0.7 | 1.9 | 2.5 | 2.5 | 2.9 | 2.7 | 2.4 | 2.6 | 2.6 | 2.5 |
| 5–14 years | 0.5 | 0.5 | 0.9 | 1.2 | 1.5 | 1.5 | 1.3 | 1.2 | 1.2 | 1.2 | 1.1 |
| 15–24 years | 5.8 | 5.6 | 11.3 | 15.4 | 19.7 | 20.0 | 17.9 | 16.6 | 14.6 | 14.6 | 13.2 |
| 25–44 years | 8.9 | 8.5 | 14.9 | 17.5 | 14.7 | 12.1 | 10.9 | 10.2 | 9.5 | 9.5 | 9.0 |
| 25–34 years | 9.3 | 9.2 | 16.2 | 19.3 | 17.4 | 14.8 | 13.2 | 12.5 | 11.5 | 11.5 | 11.2 |
| 35–44 years | 8.4 | 7.8 | 13.5 | 14.9 | 11.6 | 9.5 | 8.8 | 8.1 | 7.7 | 7.7 | 7.2 |
| 45–64 years | 5.0 | 5.3 | 8.7 | 9.0 | 6.3 | 5.4 | 5.1 | 4.8 | 4.3 | 4.3 | 4.0 |
| 45–54 years | 5.9 | 6.1 | 10.0 | 11.0 | 7.5 | 6.1 | 5.7 | 5.4 | 4.9 | 4.9 | 4.7 |
| 55–64 years | 3.9 | 4.1 | 7.1 | 7.0 | 5.0 | 4.5 | 4.0 | 3.8 | 3.3 | 3.3 | 3.1 |
| 65 years and over | 3.0 | 2.7 | 4.6 | 5.5 | 4.0 | 3.2 | 2.9 | 3.0 | 2.6 | 2.6 | 2.5 |
| 65–74 years | 3.2 | 2.8 | 4.9 | 5.7 | 3.8 | 3.2 | 2.9 | 2.9 | 2.5 | 2.5 | 2.6 |
| 75–84 years | 2.5 | 2.3 | 4.0 | 5.2 | 4.3 | 3.1 | 2.9 | 2.8 | 2.7 | 2.7 | 2.5 |
| 85 years and over | 2.3 | 2.4 | 4.2 | 5.3 | 4.6 | 3.3 | 2.9 | 3.8 | 2.4 | 2.4 | 2.4 |
| Male | | | | | | | | | | | |
| All ages, age adjusted | 7.9 | 7.5 | 14.3 | 16.6 | 14.8 | 13.1 | 11.9 | 11.2 | 10.0 | 10.0 | 9.4 |
| All ages, crude | 7.7 | 6.8 | 13.1 | 17.1 | 15.9 | 13.6 | 12.3 | 11.5 | 10.3 | 10.3 | 9.6 |
| Under 1 year | 4.5 | 4.7 | 4.5 | 6.3 | 8.8 | 8.9 | 8.7 | 9.4 | 8.9 | 8.9 | 9.6 |
| 1–14 years | 0.6 | 0.6 | 1.2 | 1.6 | 2.0 | 2.3 | 1.9 | 1.8 | 1.7 | 1.7 | 1.6 |
| 1–4 years | 0.5 | 0.7 | 1.9 | 2.7 | 2.7 | 3.1 | 2.7 | 2.7 | 2.9 | 2.9 | 2.5 |
| 5–14 years | 0.6 | 0.5 | 1.0 | 1.2 | 1.7 | 1.9 | 1.6 | 1.5 | 1.3 | 1.3 | 1.2 |
| 15–24 years | 8.6 | 8.4 | 18.2 | 24.0 | 32.5 | 33.5 | 30.0 | 27.9 | 24.4 | 24.4 | 21.7 |
| 25–44 years | 13.8 | 12.8 | 24.4 | 28.9 | 23.5 | 18.6 | 16.9 | 15.8 | 14.5 | 14.5 | 13.8 |
| 25–34 years | 14.4 | 13.9 | 26.8 | 31.9 | 27.7 | 23.2 | 20.9 | 20.0 | 18.1 | 18.1 | 17.8 |
| 35–44 years | 13.2 | 11.7 | 21.7 | 24.5 | 18.6 | 14.1 | 13.1 | 12.0 | 11.2 | 11.2 | 10.4 |
| 45–64 years | 8.1 | 8.1 | 14.8 | 15.2 | 10.2 | 8.5 | 7.8 | 7.4 | 6.6 | 6.6 | 6.2 |
| 45–54 years | 9.5 | 9.4 | 16.8 | 18.4 | 11.9 | 9.4 | 8.7 | 8.3 | 7.5 | 7.5 | 7.0 |
| 55–64 years | 6.3 | 6.4 | 12.1 | 11.8 | 8.0 | 7.1 | 6.4 | 5.9 | 5.3 | 5.3 | 4.9 |
| 65 years and over | 4.8 | 4.3 | 7.7 | 8.8 | 5.8 | 4.3 | 4.1 | 4.2 | 3.5 | 3.5 | 3.5 |
| 65–74 years | 5.2 | 4.6 | 8.5 | 9.2 | 5.8 | 4.6 | 4.3 | 4.2 | 3.6 | 3.6 | 3.7 |
| 75–84 years | 3.9 | 3.7 | 5.9 | 8.1 | 5.7 | 3.7 | 3.7 | 3.8 | 3.5 | 3.5 | 3.3 |
| 85 years and over | 2.5 | 3.6 | 7.4 | 7.5 | 6.7 | 4.1 | 3.7 | 5.9 | 3.1 | 3.1 | 3.3 |
| Female | | | | | | | | | | | |
| All ages, age adjusted | 2.4 | 2.6 | 3.7 | 4.4 | 4.0 | 3.8 | 3.5 | 3.2 | 3.1 | 3.1 | 2.9 |
| All ages, crude | 2.4 | 2.4 | 3.4 | 4.5 | 4.2 | 3.8 | 3.5 | 3.2 | 3.1 | 3.1 | 2.9 |
| Under 1 year | 4.2 | 4.9 | 4.1 | 5.6 | 8.0 | 7.2 | 8.9 | 7.3 | 8.1 | 8.1 | 7.7 |
| 1–14 years | 0.6 | 0.5 | 1.0 | 1.4 | 1.6 | 1.5 | 1.6 | 1.2 | 1.4 | 1.4 | 1.4 |
| 1–4 years | 0.7 | 0.7 | 1.9 | 2.2 | 2.3 | 2.6 | 2.7 | 2.2 | 2.4 | 2.4 | 2.5 |
| 5–14 years | 0.5 | 0.4 | 0.7 | 1.1 | 1.2 | 1.0 | 1.1 | 0.9 | 1.1 | 1.1 | 0.9 |
| 15–24 years | 3.0 | 2.8 | 4.6 | 6.6 | 6.2 | 6.0 | 5.1 | 4.7 | 4.3 | 4.3 | 4.4 |
| 25–44 years | 4.2 | 4.3 | 5.8 | 6.4 | 6.0 | 5.7 | 5.0 | 4.6 | 4.6 | 4.6 | 4.3 |
| 25–34 years | 4.5 | 4.6 | 6.0 | 6.9 | 7.1 | 6.5 | 5.5 | 5.1 | 4.9 | 4.9 | 4.6 |
| 35–44 years | 3.8 | 4.0 | 5.7 | 5.7 | 4.8 | 4.9 | 4.5 | 4.3 | 4.3 | 4.3 | 4.0 |
| 45–64 years | 1.9 | 2.5 | 3.1 | 3.4 | 2.8 | 2.6 | 2.5 | 2.4 | 2.1 | 2.1 | 2.0 |
| 45–54 years | 2.3 | 2.9 | 3.7 | 4.1 | 3.2 | 2.9 | 3.0 | 2.7 | 2.4 | 2.4 | 2.4 |
| 55–64 years | 1.4 | 2.0 | 2.5 | 2.8 | 2.3 | 2.1 | 1.9 | 1.9 | 1.6 | 1.6 | 1.5 |
| 65 years and over | 1.4 | 1.3 | 2.3 | 3.3 | 2.8 | 2.4 | 2.1 | 2.2 | 1.9 | 1.9 | 1.8 |
| 65–74 years | 1.3 | 1.3 | 2.2 | 3.0 | 2.2 | 2.1 | 1.8 | 1.9 | 1.6 | 1.6 | 1.7 |
| 75–84 years | 1.4 | 1.3 | 2.7 | 3.5 | 3.4 | 2.7 | 2.4 | 2.2 | 2.1 | 2.1 | 2.0 |
| 85 years and over | 2.1 | 1.6 | 2.5 | 4.3 | 3.8 | 2.9 | 2.6 | 3.0 | 2.2 | 2.2 | 2.0 |
| White male | | | | | | | | | | | |
| All ages, age adjusted | 3.8 | 3.9 | 7.2 | 10.4 | 8.3 | 7.4 | 6.6 | 6.4 | 5.8 | 5.8 | 5.5 |
| All ages, crude | 3.6 | 3.6 | 6.6 | 10.7 | 8.8 | 7.6 | 6.8 | 6.5 | 5.9 | 5.9 | 5.6 |
| Under 1 year | 4.3 | 3.8 | 2.9 | 4.3 | 6.4 | 7.1 | 6.5 | 7.8 | 6.7 | 6.7 | 7.8 |
| 1–14 years | 0.4 | 0.5 | 0.7 | 1.2 | 1.3 | 1.5 | 1.4 | 1.3 | 1.1 | 1.1 | 1.2 |
| 15–24 years | 3.2 | 5.0 | 7.6 | 15.1 | 15.2 | 16.2 | 13.8 | 12.9 | 12.0 | 12.0 | 10.5 |
| 25–44 years | 5.4 | 5.5 | 11.6 | 17.2 | 13.0 | 10.6 | 9.5 | 9.1 | 8.3 | 8.3 | 7.9 |
| 25–34 years | 4.9 | 5.7 | 12.5 | 18.5 | 14.7 | 12.5 | 11.0 | 11.0 | 9.7 | 9.7 | 9.5 |
| 35–44 years | 6.1 | 5.2 | 10.8 | 15.2 | 11.1 | 8.8 | 8.0 | 7.4 | 7.1 | 7.1 | 6.7 |
| 45–64 years | 4.8 | 4.6 | 8.3 | 9.8 | 6.9 | 5.6 | 5.3 | 5.2 | 4.5 | 4.5 | 4.4 |
| 65 years and over | 3.8 | 3.1 | 5.4 | 6.7 | 4.1 | 2.9 | 3.1 | 3.3 | 2.8 | 2.8 | 2.8 |

See footnotes at end of table.

Table 46 (page 2 of 3). Death rates for homicide, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|--------------------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| Black male | | | | | | | | | | | |
| All ages, age adjusted | 47.0 | 42.3 | 78.2 | 69.4 | 63.1 | 51.8 | 47.1 | 43.1 | 38.4 | 38.3 | 34.9 |
| All ages, crude | 44.7 | 35.0 | 66.0 | 65.7 | 68.5 | 55.7 | 50.9 | 46.5 | 41.3 | 41.2 | 37.5 |
| Under 1 year | --- | 10.3 | 14.3 | 18.6 | 21.4 | 19.4 | 23.1 | 18.1 | 21.8 | 21.8 | 20.8 |
| 1–14 years ⁴ | 1.8 | 1.5 | 4.4 | 4.1 | 5.8 | 6.1 | 4.8 | 4.7 | 4.9 | 4.9 | 3.9 |
| 15–24 years | 53.8 | 43.2 | 98.3 | 82.6 | 137.1 | 130.8 | 122.1 | 112.5 | 95.0 | 94.8 | 85.1 |
| 25–44 years | 92.8 | 80.5 | 140.2 | 130.0 | 105.4 | 76.9 | 70.0 | 63.6 | 57.8 | 57.7 | 54.2 |
| 25–34 years | 104.3 | 86.4 | 154.5 | 142.9 | 123.7 | 97.2 | 88.2 | 81.3 | 73.5 | 73.4 | 71.8 |
| 35–44 years | 80.0 | 74.4 | 124.0 | 109.3 | 81.2 | 55.2 | 51.1 | 46.0 | 42.5 | 42.4 | 37.5 |
| 45–64 years | 46.0 | 44.6 | 82.3 | 70.6 | 41.4 | 34.3 | 30.1 | 27.0 | 25.3 | 25.3 | 21.4 |
| 65 years and over | 16.5 | 17.3 | 33.3 | 30.9 | 25.7 | 19.9 | 15.5 | 14.3 | 11.6 | 11.6 | 11.5 |
| American Indian or Alaska Native male⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 23.3 | 16.7 | 15.8 | 14.3 | 15.4 | 13.4 | 13.4 | 15.4 |
| All ages, crude | --- | --- | --- | 23.1 | 16.6 | 17.1 | 14.9 | 16.0 | 13.9 | 13.9 | 15.1 |
| 15–24 years | --- | --- | --- | 35.4 | 25.1 | 31.2 | 26.2 | 26.7 | 21.4 | 21.4 | 20.9 |
| 25–44 years | --- | --- | --- | 39.2 | 25.7 | 27.0 | 23.1 | 23.6 | 21.0 | 21.0 | 21.7 |
| 45–64 years | --- | --- | --- | 22.1 | 14.8 | 13.2 | 11.5 | 12.8 | 13.9 | 13.9 | 17.1 |
| Asian or Pacific Islander male⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 9.1 | 7.3 | 7.7 | 6.7 | 6.2 | 5.1 | 5.1 | 4.3 |
| All ages, crude | --- | --- | --- | 8.3 | 7.9 | 7.8 | 7.1 | 6.3 | 5.2 | 5.2 | 4.4 |
| 15–24 years | --- | --- | --- | 9.3 | 14.9 | 19.1 | 15.4 | 13.3 | 9.4 | 9.4 | 8.9 |
| 25–44 years | --- | --- | --- | 11.3 | 9.6 | 7.8 | 8.2 | 7.2 | 6.4 | 6.4 | 5.3 |
| 45–64 years | --- | --- | --- | 10.4 | 7.0 | 8.1 | 7.6 | 6.4 | 4.7 | 4.7 | 4.5 |
| Hispanic male⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 27.4 | 22.0 | 18.1 | 16.3 | 14.5 | 14.5 | 13.8 |
| All ages, crude | --- | --- | --- | --- | 31.0 | 24.7 | 20.5 | 18.2 | 16.4 | 16.4 | 15.2 |
| Under 1 year | --- | --- | --- | --- | 8.7 | 5.9 | 6.4 | 8.2 | 8.7 | 8.7 | 7.1 |
| 1–14 years | --- | --- | --- | --- | 3.1 | 3.3 | 2.5 | 1.8 | 1.7 | 1.7 | 1.9 |
| 15–24 years | --- | --- | --- | --- | 55.4 | 62.6 | 48.2 | 42.0 | 40.6 | 40.5 | 34.9 |
| 25–44 years | --- | --- | --- | --- | 46.4 | 30.8 | 25.8 | 23.4 | 20.8 | 20.8 | 20.6 |
| 25–34 years | --- | --- | --- | --- | 50.9 | 36.2 | 30.5 | 27.9 | 26.2 | 26.2 | 25.9 |
| 35–44 years | --- | --- | --- | --- | 39.3 | 23.4 | 19.9 | 17.8 | 14.5 | 14.5 | 14.6 |
| 45–64 years | --- | --- | --- | --- | 20.5 | 14.7 | 13.5 | 11.3 | 8.9 | 8.9 | 9.4 |
| 65 years and over | --- | --- | --- | --- | 9.4 | 5.5 | 3.9 | 6.4 | 4.9 | 4.9 | 4.6 |
| White, non-Hispanic male⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 5.6 | 4.8 | 4.5 | 4.6 | 4.1 | 4.1 | 3.9 |
| All ages, crude | --- | --- | --- | --- | 5.8 | 4.9 | 4.6 | 4.6 | 4.2 | 4.2 | 3.9 |
| Under 1 year | --- | --- | --- | --- | 5.4 | 6.7 | 6.4 | 7.4 | 6.1 | 6.1 | 7.8 |
| 1–14 years | --- | --- | --- | --- | 0.9 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 |
| 15–24 years | --- | --- | --- | --- | 7.5 | 7.1 | 6.3 | 6.4 | 5.8 | 5.8 | 5.0 |
| 25–44 years | --- | --- | --- | --- | 8.7 | 7.3 | 6.6 | 6.5 | 6.0 | 6.0 | 5.6 |
| 25–34 years | --- | --- | --- | --- | 9.3 | 7.9 | 6.9 | 7.3 | 6.1 | 6.1 | 5.9 |
| 35–44 years | --- | --- | --- | --- | 8.0 | 6.7 | 6.2 | 5.9 | 5.9 | 5.9 | 5.4 |
| 45–64 years | --- | --- | --- | --- | 5.7 | 4.6 | 4.4 | 4.5 | 4.1 | 4.1 | 3.8 |
| 65 years and over | --- | --- | --- | --- | 3.7 | 2.6 | 3.0 | 3.1 | 2.6 | 2.6 | 2.7 |
| White female | | | | | | | | | | | |
| All ages, age adjusted | 1.4 | 1.5 | 2.3 | 3.2 | 2.7 | 2.7 | 2.5 | 2.3 | 2.2 | 2.2 | 2.2 |
| All ages, crude | 1.4 | 1.4 | 2.1 | 3.2 | 2.8 | 2.7 | 2.5 | 2.3 | 2.2 | 2.2 | 2.2 |
| Under 1 year | 3.9 | 3.5 | 2.9 | 4.3 | 5.1 | 5.0 | 6.8 | 4.6 | 5.9 | 5.9 | 5.3 |
| 1–14 years | 0.4 | 0.4 | 0.7 | 1.1 | 1.0 | 1.1 | 1.1 | 0.9 | 1.0 | 1.0 | 1.0 |
| 15–24 years | 1.3 | 1.5 | 2.7 | 4.7 | 4.0 | 4.0 | 3.3 | 3.1 | 2.8 | 2.8 | 3.0 |
| 25–44 years | 2.0 | 2.1 | 3.3 | 4.2 | 3.8 | 3.8 | 3.3 | 3.1 | 3.2 | 3.2 | 3.0 |
| 45–64 years | 1.5 | 1.7 | 2.1 | 2.6 | 2.3 | 2.2 | 2.1 | 1.9 | 1.7 | 1.7 | 1.6 |
| 65 years and over | 1.2 | 1.2 | 1.9 | 2.9 | 2.2 | 2.0 | 1.8 | 1.9 | 1.7 | 1.7 | 1.6 |
| Black female | | | | | | | | | | | |
| All ages, age adjusted | 11.1 | 11.4 | 14.7 | 13.2 | 12.5 | 10.6 | 9.8 | 8.9 | 8.2 | 8.2 | 7.5 |
| All ages, crude | 11.5 | 10.4 | 13.2 | 13.5 | 13.4 | 11.1 | 10.2 | 9.3 | 8.5 | 8.5 | 7.8 |
| Under 1 year | --- | 13.8 | 10.7 | 12.8 | 22.8 | 19.2 | 21.1 | 21.6 | 22.1 | 22.1 | 20.7 |
| 1–14 years ⁴ | 1.8 | 1.2 | 3.1 | 3.3 | 4.7 | 3.6 | 3.9 | 3.0 | 3.4 | 3.4 | 3.2 |
| 15–24 years | 16.5 | 11.9 | 17.7 | 18.4 | 18.9 | 16.7 | 14.7 | 13.3 | 12.6 | 12.6 | 11.5 |
| 25–44 years | 22.5 | 22.7 | 25.3 | 22.6 | 21.0 | 17.4 | 15.7 | 14.3 | 13.0 | 13.0 | 11.9 |
| 45–64 years | 6.8 | 10.3 | 13.4 | 10.8 | 6.5 | 5.9 | 6.0 | 6.1 | 5.0 | 5.0 | 4.7 |
| 65 years and over | 3.6 | 3.0 | 7.4 | 8.0 | 9.4 | 6.8 | 5.2 | 4.6 | 4.0 | 4.0 | 3.4 |

See footnotes at end of table.

Table 46 (page 3 of 3). Death rates for homicide, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | Comparability modified 1998 ² | 1999 ³ |
|------------------------------------------------------|-------------------|-------------------|------|------|------|------|------|------|------|------------------------------------------------|-------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| American Indian or Alaska Native female ⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 8.1 | 4.6 | 5.6 | 4.2 | 5.4 | 4.8 | 4.8 | 5.9 |
| All ages, crude | --- | --- | --- | 7.7 | 4.8 | 5.6 | 4.4 | 5.3 | 4.9 | 4.9 | 6.1 |
| 15–24 years | --- | --- | --- | * | * | * | * | * | * | * | * |
| 25–44 years | --- | --- | --- | 13.7 | 6.9 | 9.1 | * | 7.3 | 10.2 | 10.2 | 10.2 |
| 45–64 years | --- | --- | --- | * | * | * | * | * | * | * | * |
| Asian or Pacific Islander female ⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 3.1 | 2.8 | 2.5 | 2.0 | 2.1 | 2.0 | 2.0 | 2.3 |
| All ages, crude | --- | --- | --- | 3.1 | 2.8 | 2.7 | 2.1 | 2.2 | 2.0 | 2.0 | 2.3 |
| 15–24 years | --- | --- | --- | * | * | 3.7 | 3.7 | 2.8 | * | * | 2.8 |
| 25–44 years | --- | --- | --- | 4.6 | 3.8 | 3.8 | 2.1 | 2.3 | 2.3 | 2.3 | 2.8 |
| 45–64 years | --- | --- | --- | * | * | 2.3 | * | 2.5 | 2.2 | 2.2 | 2.2 |
| Hispanic female ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 4.3 | 4.2 | 3.3 | 3.0 | 2.8 | 2.8 | 2.8 |
| All ages, crude | --- | --- | --- | --- | 4.7 | 4.3 | 3.5 | 3.1 | 2.9 | 2.9 | 3.0 |
| Under 1 year | --- | --- | --- | --- | * | * | 7.7 | * | * | * | 7.6 |
| 1–14 years | --- | --- | --- | --- | 1.9 | 1.8 | 1.5 | 1.2 | 1.2 | 1.2 | 1.3 |
| 15–24 years | --- | --- | --- | --- | 8.1 | 6.9 | 5.1 | 4.7 | 4.2 | 4.2 | 4.9 |
| 25–44 years | --- | --- | --- | --- | 6.1 | 5.8 | 4.8 | 4.5 | 4.2 | 4.2 | 3.7 |
| 45–64 years | --- | --- | --- | --- | 3.3 | 3.4 | 2.7 | 2.5 | 2.0 | 2.0 | 2.5 |
| 65 years and over | --- | --- | --- | --- | * | 2.3 | * | * | * | * | * |
| White, non-Hispanic female ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 2.5 | 2.3 | 2.2 | 2.1 | 2.1 | 2.1 | 2.0 |
| All ages, crude | --- | --- | --- | --- | 2.5 | 2.4 | 2.3 | 2.1 | 2.1 | 2.1 | 2.0 |
| Under 1 year | --- | --- | --- | --- | 4.4 | 4.4 | 6.0 | 3.9 | 5.8 | 5.8 | 4.2 |
| 1–14 years | --- | --- | --- | --- | 0.8 | 0.9 | 1.0 | 0.8 | 1.0 | 1.0 | 0.9 |
| 15–24 years | --- | --- | --- | --- | 3.3 | 3.4 | 2.7 | 2.8 | 2.5 | 2.5 | 2.6 |
| 25–44 years | --- | --- | --- | --- | 3.5 | 3.3 | 3.1 | 2.9 | 3.0 | 3.0 | 2.8 |
| 45–64 years | --- | --- | --- | --- | 2.2 | 1.9 | 2.0 | 1.8 | 1.6 | 1.6 | 1.5 |
| 65 years and over | --- | --- | --- | --- | 2.2 | 1.9 | 1.9 | 2.0 | 1.6 | 1.6 | 1.7 |

--- Data not available.

* Based on fewer than 20 deaths.

¹Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

²Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

³Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

⁴In 1950 rate is for the age group under 15 years.

⁵Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

⁶Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

⁷Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. For data years shown, code numbers for cause of death are based on the then current revision of the *International Classification of Diseases* (ICD). See Appendix II, tables IV and V. Starting with *Health, United States, 2001*, this table presents trends for homicide, replacing homicide and legal intervention shown in previous editions. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for Hispanic and non-Hispanic white for 1985 (and 1986–89, 1991 available electronically) were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. Grove RD and Hetzel AM. *Vital statistics rates in the United States, 1940–60*. Washington: Public Health Service, 1968; *Vital statistics of the United States, vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/data/wh/statab/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 47 (page 1 of 3). Death rates for suicide, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|------------------------------------------------|----------------------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| All persons | Deaths per 100,000 resident population | | | | | | | | | | |
| All ages, age adjusted | 13.2 | 12.5 | 13.1 | 12.2 | 12.5 | 12.0 | 11.7 | 11.4 | 11.3 | 11.3 | 10.7 |
| All ages, crude | 11.4 | 10.6 | 11.6 | 11.9 | 12.4 | 11.9 | 11.6 | 11.4 | 11.3 | 11.3 | 10.7 |
| Under 1 year. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1–4 years | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5–14 years | 0.2 | 0.3 | 0.3 | 0.4 | 0.8 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.6 |
| 15–24 years | 4.5 | 5.2 | 8.8 | 12.3 | 13.2 | 13.3 | 12.0 | 11.4 | 11.1 | 11.1 | 10.3 |
| 25–44 years | 11.6 | 12.2 | 15.4 | 15.6 | 15.2 | 15.3 | 15.0 | 14.8 | 14.6 | 14.5 | 14.0 |
| 25–34 years. | 9.1 | 10.0 | 14.1 | 16.0 | 15.2 | 15.4 | 14.5 | 14.3 | 13.8 | 13.7 | 13.5 |
| 35–44 years. | 14.3 | 14.2 | 16.9 | 15.4 | 15.3 | 15.2 | 15.5 | 15.3 | 15.4 | 15.3 | 14.4 |
| 45–64 years | 23.5 | 22.0 | 20.6 | 15.9 | 15.3 | 14.1 | 14.4 | 14.2 | 14.1 | 14.0 | 13.5 |
| 45–54 years. | 20.9 | 20.7 | 20.0 | 15.9 | 14.8 | 14.6 | 14.9 | 14.7 | 14.8 | 14.7 | 14.2 |
| 55–64 years. | 26.8 | 23.7 | 21.4 | 15.9 | 16.0 | 13.3 | 13.7 | 13.5 | 13.1 | 13.1 | 12.4 |
| 65 years and over | 30.0 | 24.5 | 20.8 | 17.6 | 20.5 | 18.1 | 17.3 | 16.8 | 16.9 | 16.8 | 15.9 |
| 65–74 years. | 29.6 | 23.0 | 20.8 | 16.9 | 17.9 | 15.8 | 15.0 | 14.4 | 14.1 | 14.0 | 13.6 |
| 75–84 years. | 31.1 | 27.9 | 21.2 | 19.1 | 24.9 | 20.7 | 20.0 | 19.3 | 19.7 | 19.6 | 18.3 |
| 85 years and over | 28.8 | 26.0 | 19.0 | 19.2 | 22.2 | 21.6 | 20.2 | 20.8 | 21.0 | 20.9 | 19.2 |
| Male | | | | | | | | | | | |
| All ages, age adjusted | 21.2 | 20.0 | 19.8 | 19.9 | 21.5 | 20.6 | 20.0 | 19.4 | 19.2 | 19.1 | 18.2 |
| All ages, crude | 17.8 | 16.5 | 16.8 | 18.6 | 20.4 | 19.8 | 19.3 | 18.7 | 18.6 | 18.5 | 17.6 |
| Under 1 year. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1–4 years | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5–14 years | 0.3 | 0.4 | 0.5 | 0.6 | 1.1 | 1.3 | 1.1 | 1.2 | 1.2 | 1.2 | 1.0 |
| 15–24 years | 6.5 | 8.2 | 13.5 | 20.2 | 22.0 | 22.5 | 20.0 | 18.9 | 18.5 | 18.4 | 17.2 |
| 25–44 years | 17.2 | 17.9 | 20.9 | 24.0 | 24.4 | 24.9 | 24.3 | 23.8 | 23.5 | 23.4 | 22.4 |
| 25–34 years. | 13.4 | 14.7 | 19.8 | 25.0 | 24.8 | 25.6 | 24.0 | 23.6 | 22.9 | 22.8 | 22.3 |
| 35–44 years. | 21.3 | 21.0 | 22.1 | 22.5 | 23.9 | 24.1 | 24.6 | 23.9 | 24.0 | 23.9 | 22.6 |
| 45–64 years | 37.1 | 34.4 | 30.0 | 23.7 | 24.3 | 22.5 | 23.0 | 22.5 | 22.4 | 22.3 | 21.3 |
| 45–54 years. | 32.0 | 31.6 | 27.9 | 22.9 | 23.2 | 22.8 | 23.3 | 22.5 | 23.1 | 23.0 | 22.0 |
| 55–64 years. | 43.6 | 38.1 | 32.7 | 24.5 | 25.7 | 22.0 | 22.7 | 22.4 | 21.3 | 21.2 | 20.2 |
| 65 years and over | 52.8 | 44.0 | 38.4 | 35.0 | 41.6 | 36.3 | 35.2 | 33.9 | 34.1 | 34.0 | 32.1 |
| 65–74 years. | 50.5 | 39.6 | 36.0 | 30.4 | 32.2 | 28.7 | 27.7 | 26.4 | 26.2 | 26.1 | 25.0 |
| 75–84 years. | 58.3 | 52.5 | 42.8 | 42.3 | 56.1 | 44.8 | 43.4 | 40.9 | 42.0 | 41.8 | 38.3 |
| 85 years and over | 58.3 | 57.4 | 42.4 | 50.6 | 65.9 | 63.1 | 59.9 | 60.3 | 57.8 | 57.6 | 54.9 |
| Female | | | | | | | | | | | |
| All ages, age adjusted | 5.6 | 5.6 | 7.4 | 5.7 | 4.8 | 4.4 | 4.3 | 4.4 | 4.3 | 4.3 | 4.1 |
| All ages, crude | 5.1 | 4.9 | 6.6 | 5.5 | 4.8 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.1 |
| Under 1 year. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1–4 years | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5–14 years | 0.1 | 0.1 | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 |
| 15–24 years | 2.6 | 2.2 | 4.2 | 4.3 | 3.9 | 3.7 | 3.6 | 3.5 | 3.3 | 3.3 | 3.1 |
| 25–44 years | 6.2 | 6.6 | 10.2 | 7.7 | 6.2 | 5.8 | 5.8 | 6.0 | 6.0 | 6.0 | 5.7 |
| 25–34 years. | 4.9 | 5.5 | 8.6 | 7.1 | 5.6 | 5.2 | 5.0 | 5.0 | 4.9 | 4.9 | 4.8 |
| 35–44 years. | 7.5 | 7.7 | 11.9 | 8.5 | 6.8 | 6.5 | 6.6 | 6.8 | 6.9 | 6.9 | 6.4 |
| 45–64 years | 9.9 | 10.2 | 12.0 | 8.9 | 7.1 | 6.1 | 6.4 | 6.5 | 6.4 | 6.4 | 6.1 |
| 45–54 years. | 9.9 | 10.2 | 12.6 | 9.4 | 6.9 | 6.7 | 7.0 | 7.3 | 7.0 | 7.0 | 6.7 |
| 55–64 years. | 9.9 | 10.2 | 11.4 | 8.4 | 7.3 | 5.3 | 5.5 | 5.4 | 5.5 | 5.5 | 5.2 |
| 65 years and over | 9.4 | 8.4 | 8.1 | 6.1 | 6.4 | 5.5 | 4.8 | 4.9 | 4.7 | 4.7 | 4.4 |
| 65–74 years. | 10.1 | 8.4 | 9.0 | 6.5 | 6.7 | 5.4 | 4.8 | 4.7 | 4.3 | 4.3 | 4.2 |
| 75–84 years. | 8.1 | 8.9 | 7.0 | 5.5 | 6.3 | 5.5 | 5.0 | 5.2 | 4.9 | 4.9 | 4.8 |
| 85 years and over | 8.2 | 6.0 | 5.9 | 5.5 | 5.4 | 5.5 | 4.4 | 4.9 | 5.8 | 5.8 | 4.1 |
| White male | | | | | | | | | | | |
| All ages, age adjusted | 22.3 | 21.1 | 20.8 | 20.9 | 22.8 | 21.9 | 21.3 | 20.6 | 20.6 | 20.5 | 19.4 |
| All ages, crude | 19.0 | 17.6 | 18.0 | 19.9 | 22.0 | 21.4 | 20.9 | 20.2 | 20.3 | 20.2 | 19.1 |
| 15–24 years | 6.6 | 8.6 | 13.9 | 21.4 | 23.2 | 23.5 | 20.9 | 19.5 | 19.3 | 19.2 | 17.8 |
| 25–44 years | 17.9 | 18.5 | 21.5 | 24.6 | 25.4 | 26.3 | 25.7 | 25.3 | 25.2 | 25.1 | 23.9 |
| 45–64 years | 39.3 | 36.5 | 31.9 | 25.0 | 26.0 | 24.2 | 24.9 | 24.2 | 24.2 | 24.1 | 23.0 |
| 65 years and over | 55.8 | 46.7 | 41.1 | 37.2 | 44.2 | 38.7 | 37.8 | 36.1 | 36.6 | 36.5 | 34.5 |
| 65–74 years. | 53.2 | 42.0 | 38.7 | 32.5 | 34.2 | 30.3 | 29.6 | 28.0 | 27.9 | 27.8 | 26.8 |
| 75–84 years. | 61.9 | 55.7 | 45.5 | 45.5 | 60.2 | 47.5 | 46.1 | 43.4 | 44.7 | 44.5 | 40.8 |
| 85 years and over | 61.9 | 61.3 | 45.8 | 52.8 | 70.3 | 68.2 | 65.4 | 65.0 | 62.7 | 62.5 | 59.6 |

See footnotes at end of table.

Table 47 (page 2 of 3). Death rates for suicide, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1950¹</i> | <i>1960¹</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998²</i> | <i>1999³</i> |
|--------------------------------------------------------------|-------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| Black male | | | | | | | | | | | |
| All ages, age adjusted | 7.5 | 8.4 | 10.0 | 11.4 | 12.8 | 12.5 | 11.9 | 11.4 | 10.6 | 10.6 | 10.4 |
| All ages, crude | 6.3 | 6.4 | 8.0 | 10.3 | 12.0 | 11.9 | 11.4 | 10.9 | 10.2 | 10.2 | 10.0 |
| 15–24 years | 4.9 | 4.1 | 10.5 | 12.3 | 15.1 | 18.0 | 16.7 | 16.0 | 15.0 | 14.9 | 14.4 |
| 25–44 years | 9.8 | 12.6 | 16.1 | 19.2 | 19.6 | 18.6 | 17.8 | 17.0 | 15.2 | 15.1 | 15.4 |
| 45–64 years | 12.7 | 13.0 | 12.4 | 11.8 | 13.1 | 11.8 | 11.8 | 10.5 | 11.1 | 11.1 | 10.1 |
| 65 years and over | 9.0 | 9.9 | 8.7 | 11.4 | 14.9 | 14.3 | 12.6 | 13.6 | 11.6 | 11.6 | 12.0 |
| 65–74 years | 10.0 | 11.3 | 8.7 | 11.1 | 14.7 | 13.5 | 12.7 | 12.9 | 11.4 | 11.4 | 11.3 |
| 75–84 years ⁴ | * | * | * | 10.5 | 14.4 | 16.6 | 12.5 | 14.1 | 12.5 | 12.5 | 13.2 |
| 85 years and over | --- | * | * | * | * | * | * | * | * | * | * |
| American Indian or Alaska Native male⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 19.3 | 20.1 | 18.9 | 19.2 | 20.5 | 20.1 | 20.0 | 19.1 |
| All ages, crude | --- | --- | --- | 20.9 | 20.9 | 19.6 | 19.9 | 20.9 | 21.1 | 21.0 | 19.6 |
| 15–24 years | --- | --- | --- | 45.3 | 49.1 | 34.2 | 32.1 | 38.4 | 41.8 | 41.6 | 36.6 |
| 25–44 years | --- | --- | --- | 31.2 | 27.8 | 31.8 | 34.8 | 32.6 | 33.3 | 33.2 | 29.8 |
| 45–64 years | --- | --- | --- | * | * | 15.0 | 11.5 | 15.5 | 11.3 | 11.3 | 16.0 |
| 65 years and over | --- | --- | --- | * | * | * | * | * | * | * | * |
| Asian or Pacific Islander male⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 10.7 | 9.6 | 10.4 | 9.3 | 10.5 | 10.2 | 10.2 | 9.7 |
| All ages, crude | --- | --- | --- | 8.8 | 8.7 | 9.4 | 8.6 | 9.2 | 9.1 | 9.1 | 9.0 |
| 15–24 years | --- | --- | --- | 10.8 | 13.5 | 16.0 | 11.9 | 12.2 | 10.9 | 10.9 | 10.3 |
| 25–44 years | --- | --- | --- | 11.0 | 10.6 | 11.5 | 11.5 | 10.6 | 11.9 | 11.9 | 12.0 |
| 45–64 years | --- | --- | --- | 13.0 | 9.7 | 9.1 | 8.6 | 12.3 | 10.2 | 10.2 | 12.3 |
| 65 years and over | --- | --- | --- | 18.6 | 16.8 | 20.3 | 16.0 | 21.0 | 21.0 | 20.9 | 13.9 |
| Hispanic male⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 13.7 | 13.1 | 12.0 | 11.2 | 11.0 | 11.0 | 10.7 |
| All ages, crude | --- | --- | --- | --- | 11.4 | 11.5 | 10.6 | 9.8 | 9.4 | 9.4 | 9.1 |
| 15–24 years | --- | --- | --- | --- | 14.7 | 18.3 | 15.5 | 14.4 | 13.4 | 13.3 | 11.9 |
| 25–44 years | --- | --- | --- | --- | 16.2 | 15.5 | 14.6 | 13.9 | 13.0 | 13.0 | 13.1 |
| 45–64 years | --- | --- | --- | --- | 16.1 | 14.2 | 13.3 | 11.6 | 11.5 | 11.5 | 11.9 |
| 65 years and over | --- | --- | --- | --- | 23.4 | 19.9 | 17.7 | 17.7 | 20.0 | 19.9 | 17.4 |
| White, non-Hispanic male⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 23.5 | 22.4 | 22.0 | 21.5 | 21.5 | 21.4 | 20.3 |
| All ages, crude | --- | --- | --- | --- | 23.1 | 22.3 | 22.0 | 21.5 | 21.6 | 21.5 | 20.4 |
| 15–24 years | --- | --- | --- | --- | 24.4 | 23.8 | 21.4 | 20.2 | 20.2 | 20.1 | 18.8 |
| 25–44 years | --- | --- | --- | --- | 26.4 | 27.3 | 27.1 | 26.8 | 26.7 | 26.6 | 25.4 |
| 45–64 years | --- | --- | --- | --- | 26.8 | 24.8 | 25.6 | 25.1 | 25.1 | 25.0 | 23.8 |
| 65 years and over | --- | --- | --- | --- | 45.4 | 39.2 | 38.6 | 36.8 | 37.3 | 37.2 | 35.3 |
| White female | | | | | | | | | | | |
| All ages, age adjusted | 6.0 | 5.9 | 7.9 | 6.1 | 5.2 | 4.7 | 4.7 | 4.8 | 4.7 | 4.7 | 4.4 |
| All ages, crude | 5.5 | 5.3 | 7.1 | 5.9 | 5.3 | 4.8 | 4.8 | 4.9 | 4.8 | 4.8 | 4.5 |
| 15–24 years | 2.7 | 2.3 | 4.2 | 4.6 | 4.2 | 3.9 | 3.8 | 3.7 | 3.5 | 3.5 | 3.2 |
| 25–44 years | 6.6 | 7.0 | 11.0 | 8.1 | 6.6 | 6.3 | 6.4 | 6.6 | 6.6 | 6.6 | 6.3 |
| 45–64 years | 10.6 | 10.9 | 13.0 | 9.6 | 7.7 | 6.7 | 7.0 | 7.2 | 7.1 | 7.1 | 6.8 |
| 65 years and over | 9.9 | 8.8 | 8.5 | 6.4 | 6.8 | 5.7 | 5.0 | 5.1 | 5.0 | 5.0 | 4.6 |
| Black female | | | | | | | | | | | |
| All ages, age adjusted | 1.8 | 2.0 | 2.9 | 2.4 | 2.4 | 2.1 | 2.0 | 2.0 | 1.8 | 1.8 | 1.6 |
| All ages, crude | 1.5 | 1.6 | 2.6 | 2.2 | 2.3 | 2.0 | 2.0 | 1.9 | 1.8 | 1.8 | 1.6 |
| 15–24 years | 1.8 | * | 3.8 | 2.3 | 2.3 | 2.2 | 2.3 | 2.4 | 2.2 | 2.2 | 2.0 |
| 25–44 years | 2.3 | 3.0 | 4.8 | 4.3 | 3.8 | 3.4 | 2.9 | 2.7 | 2.7 | 2.7 | 2.5 |
| 45–64 years | 2.7 | 3.1 | 2.9 | 2.5 | 2.9 | 2.0 | 2.3 | 2.4 | 2.2 | 2.2 | 1.8 |
| 65 years and over | * | * | 2.6 | * | 1.9 | 2.2 | 2.1 | 1.6 | 1.2 | 1.2 | 1.5 |

See footnotes at end of table.

Table 47 (page 3 of 3). Death rates for suicide, according to sex, race, Hispanic origin, and age: United States, selected years 1950–99

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | Comparability modified 1998 ² | 1999 ³ |
|---------------------------------------------------------|-------------------|-------------------|------|------|------|------|------|------|------|------------------------------------------------|-------------------|
| Deaths per 100,000 resident population | | | | | | | | | | | |
| American Indian or Alaska Native female ⁵ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 4.7 | 3.6 | 4.2 | 5.7 | 4.5 | 5.3 | 5.3 | 4.7 |
| All ages, crude | --- | --- | --- | 4.7 | 3.7 | 4.2 | 5.6 | 4.2 | 5.4 | 5.4 | 4.8 |
| 15–24 years | --- | --- | --- | * | * | * | 10.2 | * | * | * | * |
| 25–44 years | --- | --- | --- | 10.7 | * | 7.1 | 9.0 | 6.4 | 8.0 | 8.0 | 8.3 |
| 45–64 years | --- | --- | --- | * | * | * | * | * | * | * | * |
| 65 years and over | --- | --- | --- | * | * | * | * | * | * | * | * |
| Asian or Pacific Islander female ⁶ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | 5.5 | 4.1 | 4.3 | 4.0 | 4.0 | 3.6 | 3.6 | 3.6 |
| All ages, crude | --- | --- | --- | 4.7 | 3.4 | 3.8 | 3.7 | 3.6 | 3.3 | 3.3 | 3.4 |
| 15–24 years | --- | --- | --- | * | 3.9 | 5.2 | 3.0 | 4.7 | 2.7 | 2.7 | 4.4 |
| 25–44 years | --- | --- | --- | 5.4 | 3.8 | 3.8 | 4.5 | 3.7 | 4.0 | 4.0 | 4.0 |
| 45–64 years | --- | --- | --- | 7.9 | 5.0 | 4.9 | 5.2 | 4.4 | 4.3 | 4.3 | 4.0 |
| 65 years and over | --- | --- | --- | * | 8.5 | 9.0 | 8.4 | 8.9 | 7.2 | 7.2 | 6.5 |
| Hispanic female ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 2.3 | 2.1 | 2.2 | 1.8 | 2.0 | 2.0 | 1.9 |
| All ages, crude | --- | --- | --- | --- | 2.2 | 1.9 | 2.1 | 1.6 | 1.8 | 1.8 | 1.7 |
| 15–24 years | --- | --- | --- | --- | 3.1 | 2.6 | 3.3 | 2.4 | 2.8 | 2.8 | 2.0 |
| 25–44 years | --- | --- | --- | --- | 3.1 | 2.7 | 2.8 | 2.2 | 2.2 | 2.2 | 2.5 |
| 45–64 years | --- | --- | --- | --- | 2.5 | 2.7 | 2.6 | 2.3 | 2.7 | 2.7 | 2.5 |
| 65 years and over | --- | --- | --- | --- | * | * | 2.5 | * | 2.5 | 2.5 | 2.2 |
| White, non-Hispanic female ⁷ | | | | | | | | | | | |
| All ages, age adjusted | --- | --- | --- | --- | 5.4 | 4.9 | 4.9 | 5.1 | 5.0 | 5.0 | 4.7 |
| All ages, crude | --- | --- | --- | --- | 5.6 | 5.1 | 5.0 | 5.3 | 5.2 | 5.2 | 4.9 |
| 15–24 years | --- | --- | --- | --- | 4.3 | 4.0 | 3.8 | 3.9 | 3.6 | 3.6 | 3.4 |
| 25–44 years | --- | --- | --- | --- | 7.0 | 6.7 | 6.7 | 7.2 | 7.2 | 7.2 | 6.8 |
| 45–64 years | --- | --- | --- | --- | 8.0 | 7.0 | 7.3 | 7.6 | 7.4 | 7.4 | 7.1 |
| 65 years and over | --- | --- | --- | --- | 7.0 | 5.8 | 5.1 | 5.2 | 5.2 | 5.2 | 4.8 |

... Category not applicable.

* Based on fewer than 20 deaths.

--- Data not available.

¹Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

²Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

³Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

⁴In 1950 rate is for the age group 75 years and over.

⁵Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

⁶Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

⁷Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. For data years shown, code numbers for cause of death are based on the then current revision of the *International Classification of Diseases* (ICD). See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for 1950 all persons and for Hispanic and non-Hispanic white for 1985 (and 1986–89, 1991 available electronically) were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. Grove RD and Hetzel AM. *Vital statistics rates in the United States, 1940–60*. Washington: Public Health Service, 1968; *Vital statistics of the United States, vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/dataawh/statab/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 48 (page 1 of 3). Death rates for firearm-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1970–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998¹</i> | <i>1999²</i> |
|------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | |
| All persons | | | | | | | | | |
| All ages, age adjusted | 14.3 | 14.8 | 14.6 | 13.6 | 12.8 | 12.1 | 11.3 | 11.3 | 10.6 |
| All ages, crude | 13.1 | 14.9 | 14.9 | 13.7 | 12.8 | 12.1 | 11.4 | 11.4 | 10.6 |
| Under 1 year | * | * | * | * | * | * | * | * | * |
| 1–14 years | 1.6 | 1.4 | 1.5 | 1.6 | 1.3 | 1.1 | 1.1 | 1.1 | 0.9 |
| 1–4 years | 1.0 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 |
| 5–14 years | 1.7 | 1.6 | 1.9 | 2.0 | 1.6 | 1.4 | 1.4 | 1.4 | 1.1 |
| 15–24 years | 15.5 | 20.6 | 25.8 | 27.2 | 24.2 | 22.3 | 19.9 | 19.8 | 18.0 |
| 25–44 years | 20.9 | 22.5 | 19.3 | 17.2 | 16.1 | 15.4 | 14.4 | 14.4 | 13.5 |
| 25–34 years | 22.2 | 24.3 | 21.8 | 20.1 | 18.3 | 17.8 | 16.3 | 16.3 | 15.8 |
| 35–44 years | 19.6 | 20.0 | 16.3 | 14.4 | 14.0 | 13.2 | 12.8 | 12.8 | 11.7 |
| 45–64 years | 17.6 | 15.2 | 13.6 | 11.8 | 11.9 | 11.3 | 10.7 | 10.7 | 10.2 |
| 45–54 years | 18.1 | 16.4 | 13.9 | 12.1 | 12.3 | 11.5 | 10.9 | 10.9 | 10.4 |
| 55–64 years | 17.0 | 13.9 | 13.3 | 11.4 | 11.2 | 11.0 | 10.4 | 10.4 | 9.9 |
| 65 years and over | 13.8 | 13.5 | 16.0 | 14.2 | 13.9 | 13.2 | 13.1 | 13.1 | 12.5 |
| 65–74 years | 14.5 | 13.8 | 14.4 | 12.9 | 12.6 | 11.9 | 11.3 | 11.3 | 11.2 |
| 75–84 years | 13.4 | 13.4 | 19.4 | 16.4 | 15.9 | 14.9 | 15.5 | 15.5 | 14.3 |
| 85 years and over | 10.2 | 11.6 | 14.7 | 14.6 | 14.5 | 14.3 | 14.3 | 14.3 | 13.4 |
| Male | | | | | | | | | |
| All ages, age adjusted | 24.8 | 25.9 | 26.1 | 24.2 | 22.7 | 21.4 | 20.1 | 20.0 | 18.8 |
| All ages, crude | 22.2 | 25.7 | 26.2 | 23.9 | 22.5 | 21.2 | 19.8 | 19.7 | 18.5 |
| Under 1 year | * | * | * | * | * | * | * | * | * |
| 1–14 years | 2.3 | 2.0 | 2.2 | 2.3 | 1.8 | 1.7 | 1.5 | 1.5 | 1.2 |
| 1–4 years | 1.2 | 0.9 | 0.7 | 0.8 | 0.5 | 0.5 | 0.6 | 0.6 | 0.5 |
| 5–14 years | 2.7 | 2.5 | 2.9 | 2.9 | 2.4 | 2.1 | 1.9 | 1.9 | 1.5 |
| 15–24 years | 26.4 | 34.8 | 44.7 | 47.6 | 42.2 | 38.9 | 34.7 | 34.6 | 31.3 |
| 25–44 years | 34.1 | 38.1 | 32.6 | 28.9 | 27.0 | 25.8 | 24.2 | 24.1 | 22.8 |
| 25–34 years | 36.5 | 41.4 | 37.0 | 34.3 | 31.4 | 30.5 | 28.0 | 27.9 | 27.4 |
| 35–44 years | 31.6 | 33.2 | 27.4 | 23.7 | 22.9 | 21.5 | 20.9 | 20.8 | 19.0 |
| 45–64 years | 31.0 | 25.9 | 23.4 | 20.2 | 20.4 | 19.4 | 18.4 | 18.4 | 17.5 |
| 45–54 years | 30.7 | 27.3 | 23.2 | 20.4 | 20.5 | 19.3 | 18.3 | 18.3 | 17.5 |
| 55–64 years | 31.3 | 24.5 | 23.7 | 20.0 | 20.2 | 19.7 | 18.4 | 18.4 | 17.5 |
| 65 years and over | 29.7 | 29.7 | 35.3 | 30.9 | 30.2 | 28.5 | 28.5 | 28.4 | 27.1 |
| 65–74 years | 29.5 | 27.8 | 28.2 | 25.3 | 24.8 | 23.1 | 22.2 | 22.1 | 21.8 |
| 75–84 years | 31.0 | 33.0 | 46.9 | 37.7 | 36.4 | 34.1 | 35.1 | 35.0 | 32.4 |
| 85 years and over | 26.2 | 34.9 | 49.3 | 47.4 | 46.7 | 45.8 | 44.9 | 44.8 | 41.7 |
| Female | | | | | | | | | |
| All ages, age adjusted | 4.8 | 4.7 | 4.2 | 3.9 | 3.6 | 3.4 | 3.3 | 3.3 | 3.0 |
| All ages, crude | 4.4 | 4.7 | 4.3 | 3.9 | 3.6 | 3.4 | 3.3 | 3.3 | 3.0 |
| Under 1 year | * | * | * | * | * | * | * | * | * |
| 1–14 years | 0.8 | 0.7 | 0.8 | 0.8 | 0.7 | 0.6 | 0.7 | 0.7 | 0.5 |
| 1–4 years | 0.9 | 0.5 | 0.5 | 0.5 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 |
| 5–14 years | 0.8 | 0.7 | 1.0 | 0.9 | 0.8 | 0.7 | 0.8 | 0.8 | 0.6 |
| 15–24 years | 4.8 | 6.1 | 6.0 | 6.0 | 5.1 | 4.8 | 4.5 | 4.5 | 4.0 |
| 25–44 years | 8.3 | 7.4 | 6.1 | 5.6 | 5.2 | 5.0 | 4.7 | 4.7 | 4.4 |
| 25–34 years | 8.4 | 7.5 | 6.7 | 5.9 | 5.2 | 5.1 | 4.7 | 4.7 | 4.3 |
| 35–44 years | 8.2 | 7.2 | 5.4 | 5.3 | 5.1 | 4.9 | 4.7 | 4.7 | 4.5 |
| 45–64 years | 5.4 | 5.4 | 4.5 | 4.0 | 3.9 | 3.7 | 3.6 | 3.6 | 3.3 |
| 45–54 years | 6.4 | 6.2 | 4.9 | 4.3 | 4.4 | 4.1 | 3.9 | 3.9 | 3.6 |
| 55–64 years | 4.2 | 4.6 | 4.0 | 3.5 | 3.1 | 3.0 | 3.1 | 3.1 | 2.9 |
| 65 years and over | 2.4 | 2.5 | 3.1 | 2.8 | 2.6 | 2.5 | 2.3 | 2.3 | 2.2 |
| 65–74 years | 2.8 | 3.1 | 3.6 | 3.0 | 2.8 | 2.9 | 2.4 | 2.4 | 2.5 |
| 75–84 years | 1.7 | 1.7 | 2.9 | 2.8 | 2.6 | 2.3 | 2.5 | 2.5 | 2.2 |
| 85 years and over | * | 1.3 | 1.3 | 1.8 | 1.7 | 1.7 | 1.6 | 1.6 | 1.5 |
| White male | | | | | | | | | |
| All ages, age adjusted | 19.7 | 22.1 | 22.0 | 20.4 | 19.3 | 18.3 | 17.6 | 17.6 | 16.5 |
| All ages, crude | 17.6 | 21.8 | 21.8 | 20.1 | 19.0 | 18.1 | 17.4 | 17.4 | 16.3 |
| 1–14 years | 1.8 | 1.9 | 1.9 | 1.9 | 1.5 | 1.4 | 1.3 | 1.3 | 1.1 |
| 15–24 years | 16.9 | 28.4 | 29.5 | 31.4 | 26.9 | 24.8 | 23.1 | 23.0 | 20.9 |
| 25–44 years | 24.2 | 29.5 | 25.7 | 23.6 | 22.0 | 21.2 | 20.3 | 20.2 | 19.0 |
| 25–34 years | 24.3 | 31.1 | 27.8 | 26.1 | 23.6 | 23.1 | 21.2 | 21.1 | 20.6 |
| 35–44 years | 24.1 | 27.1 | 23.3 | 21.2 | 20.6 | 19.5 | 19.5 | 19.4 | 17.6 |
| 45–64 years | 27.4 | 23.3 | 22.8 | 19.7 | 20.2 | 19.4 | 18.5 | 18.5 | 17.7 |
| 65 years and over | 29.9 | 30.1 | 36.8 | 32.3 | 31.8 | 30.0 | 30.3 | 30.2 | 28.9 |

See footnotes at end of table.

Table 48 (page 2 of 3). Death rates for firearm-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1970–99

[Data are based on the National Vital Statistics System]

| <i>Sex, race, Hispanic origin, and age</i> | <i>1970</i> | <i>1980</i> | <i>1990</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>Comparability modified 1998¹</i> | <i>1999²</i> |
|--------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------|-------------------------|
| Deaths per 100,000 resident population | | | | | | | | | |
| Black male | | | | | | | | | |
| All ages, age adjusted | 70.8 | 60.1 | 56.3 | 49.9 | 46.6 | 42.4 | 37.3 | 37.2 | 34.8 |
| All ages, crude | 60.8 | 57.7 | 61.9 | 54.0 | 50.6 | 46.1 | 40.3 | 40.2 | 37.3 |
| 1–14 years | 5.3 | 3.0 | 4.4 | 4.6 | 3.6 | 3.1 | 2.4 | 2.4 | 2.1 |
| 15–24 years | 97.3 | 77.9 | 138.0 | 140.2 | 131.6 | 119.9 | 101.8 | 101.5 | 91.9 |
| 25–44 years | 126.2 | 114.1 | 90.3 | 71.2 | 67.0 | 61.8 | 55.3 | 55.2 | 52.6 |
| 25–34 years | 145.6 | 128.4 | 108.6 | 94.4 | 88.6 | 84.0 | 75.3 | 75.1 | 74.0 |
| 35–44 years | 104.2 | 92.3 | 66.1 | 46.6 | 44.7 | 39.5 | 35.9 | 35.8 | 32.5 |
| 45–64 years | 71.1 | 55.6 | 34.5 | 29.1 | 27.0 | 23.3 | 22.1 | 22.0 | 19.9 |
| 65 years and over | 30.6 | 29.7 | 23.9 | 21.4 | 19.1 | 17.8 | 14.2 | 14.2 | 14.7 |
| American Indian or Alaska Native male³ | | | | | | | | | |
| All ages, age adjusted | --- | 24.0 | 19.4 | 21.3 | 18.2 | 19.7 | 18.5 | 18.5 | 18.6 |
| All ages, crude | --- | 27.5 | 20.5 | 22.9 | 19.1 | 20.1 | 19.3 | 19.2 | 19.2 |
| 15–24 years | --- | 55.3 | 49.1 | 45.5 | 40.0 | 39.4 | 43.3 | 43.2 | 39.9 |
| 25–44 years | --- | 43.9 | 25.4 | 34.1 | 26.7 | 29.3 | 25.6 | 25.5 | 25.4 |
| 45–64 years | --- | * | * | 15.6 | 13.8 | 13.9 | 13.4 | 13.4 | 14.5 |
| 65 years and over | --- | * | * | * | * | * | * | * | * |
| Asian or Pacific Islander male⁴ | | | | | | | | | |
| All ages, age adjusted | --- | 7.8 | 8.8 | 9.9 | 8.2 | 8.7 | 7.1 | 7.1 | 6.5 |
| All ages, crude | --- | 8.2 | 9.4 | 10.4 | 8.6 | 8.7 | 7.0 | 7.0 | 6.7 |
| 15–24 years | --- | 10.8 | 21.0 | 27.1 | 19.6 | 19.7 | 13.9 | 13.9 | 12.4 |
| 25–44 years | --- | 12.8 | 10.9 | 11.3 | 10.0 | 9.6 | 8.7 | 8.7 | 9.2 |
| 45–64 years | --- | 10.4 | 8.1 | 8.6 | 7.7 | 8.7 | 6.1 | 6.1 | 6.7 |
| 65 years and over | --- | * | * | * | * | 7.7 | 8.0 | 8.0 | * |
| Hispanic male⁵ | | | | | | | | | |
| All ages, age adjusted | --- | --- | 27.6 | 25.6 | 21.0 | 18.6 | 17.1 | 17.1 | 15.7 |
| All ages, crude | --- | --- | 29.9 | 27.6 | 22.6 | 19.9 | 18.1 | 18.1 | 16.2 |
| 1–14 years | --- | --- | 2.6 | 2.9 | 1.9 | 1.4 | 1.3 | 1.3 | 1.2 |
| 15–24 years | --- | --- | 55.5 | 70.7 | 54.4 | 47.9 | 44.9 | 44.8 | 38.0 |
| 25–44 years | --- | --- | 42.7 | 33.5 | 27.5 | 24.5 | 22.6 | 22.5 | 20.8 |
| 25–34 years | --- | --- | 47.3 | 39.9 | 32.8 | 29.3 | 28.6 | 28.5 | 25.9 |
| 35–44 years | --- | --- | 35.4 | 24.9 | 20.8 | 18.7 | 15.6 | 15.6 | 15.0 |
| 45–64 years | --- | --- | 21.4 | 17.2 | 16.2 | 13.7 | 10.7 | 10.7 | 11.3 |
| 65 years and over | --- | --- | 19.1 | 15.6 | 11.7 | 12.3 | 14.2 | 14.2 | 12.9 |
| White, non-Hispanic male⁵ | | | | | | | | | |
| All ages, age adjusted | --- | --- | 20.6 | 18.7 | 18.1 | 17.5 | 16.9 | 16.9 | 15.9 |
| All ages, crude | --- | --- | 20.4 | 18.6 | 18.0 | 17.5 | 17.0 | 17.0 | 16.0 |
| 1–14 years | --- | --- | 1.6 | 1.6 | 1.4 | 1.4 | 1.3 | 1.3 | 1.0 |
| 15–24 years | --- | --- | 24.1 | 23.3 | 20.4 | 19.4 | 18.1 | 18.1 | 16.9 |
| 25–44 years | --- | --- | 23.3 | 21.6 | 20.6 | 20.3 | 19.6 | 19.5 | 18.3 |
| 25–34 years | --- | --- | 24.7 | 22.9 | 21.2 | 21.4 | 19.3 | 19.2 | 19.1 |
| 35–44 years | --- | --- | 21.6 | 20.4 | 20.1 | 19.4 | 19.8 | 19.7 | 17.7 |
| 45–64 years | --- | --- | 22.7 | 19.7 | 20.2 | 19.8 | 19.0 | 18.9 | 18.1 |
| 65 years and over | --- | --- | 37.4 | 32.7 | 32.6 | 30.8 | 31.1 | 31.0 | 29.8 |
| White female | | | | | | | | | |
| All ages, age adjusted | 4.0 | 4.2 | 3.8 | 3.5 | 3.2 | 3.2 | 3.0 | 3.0 | 2.8 |
| All ages, crude | 3.7 | 4.1 | 3.8 | 3.5 | 3.2 | 3.2 | 3.0 | 3.0 | 2.8 |
| 15–24 years | 3.4 | 5.1 | 4.8 | 4.6 | 3.8 | 3.8 | 3.4 | 3.4 | 3.1 |
| 25–44 years | 6.9 | 6.2 | 5.3 | 5.0 | 4.6 | 4.7 | 4.4 | 4.4 | 4.1 |
| 45–64 years | 5.0 | 5.1 | 4.5 | 4.0 | 3.9 | 3.8 | 3.7 | 3.7 | 3.4 |
| 65 years and over | 2.2 | 2.5 | 3.1 | 2.9 | 2.6 | 2.6 | 2.4 | 2.4 | 2.3 |

See footnotes at end of table.

Table 48 (page 3 of 3). Death rates for firearm-related injuries, according to sex, race, Hispanic origin, and age: United States, selected years 1970–99

[Data are based on the National Vital Statistics System]

| Sex, race, Hispanic origin, and age | 1970 | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | Comparability modified 1998 ¹ | 1999 ² |
|---------------------------------------------------------|------|------|------|------|------|------|------|------------------------------------------------|-------------------|
| Deaths per 100,000 resident population | | | | | | | | | |
| Black female | | | | | | | | | |
| All ages, age adjusted | 11.1 | 8.7 | 7.3 | 6.3 | 6.1 | 5.1 | 4.8 | 4.8 | 4.4 |
| All ages, crude | 10.0 | 8.8 | 7.8 | 6.6 | 6.4 | 5.4 | 5.0 | 5.0 | 4.6 |
| 15–24 years | 15.2 | 12.3 | 13.3 | 13.5 | 12.0 | 10.6 | 10.2 | 10.2 | 9.2 |
| 25–44 years | 19.4 | 16.1 | 12.4 | 10.0 | 9.8 | 8.0 | 7.5 | 7.5 | 6.9 |
| 45–64 years | 10.2 | 8.2 | 4.8 | 4.1 | 4.1 | 3.4 | 3.2 | 3.2 | 3.0 |
| 65 years and over | 4.3 | 3.1 | 3.1 | 2.6 | 3.0 | 2.2 | 1.8 | 1.8 | 1.4 |
| American Indian or Alaska Native female ³ | | | | | | | | | |
| All ages, age adjusted | --- | 5.8 | 3.3 | 4.2 | 3.6 | 3.3 | 4.2 | 4.2 | 3.2 |
| All ages, crude | --- | 5.8 | 3.4 | 4.4 | 3.7 | 3.0 | 4.2 | 4.2 | 3.3 |
| 15–24 years | --- | * | * | * | * | * | * | * | * |
| 25–44 years | --- | 10.2 | * | 7.7 | 5.9 | * | 6.9 | 6.9 | * |
| 45–64 years | --- | * | * | * | * | * | * | * | * |
| 65 years and over | --- | * | * | * | * | * | * | * | * |
| Asian or Pacific Islander female ⁴ | | | | | | | | | |
| All ages, age adjusted | --- | 2.0 | 1.9 | 2.1 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 |
| All ages, crude | --- | 2.1 | 2.1 | 2.2 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 |
| 15–24 years | --- | * | * | 4.2 | 3.7 | 3.2 | * | * | * |
| 25–44 years | --- | 3.2 | 2.7 | 2.9 | 2.1 | 1.9 | 2.2 | 2.2 | 2.3 |
| 45–64 years | --- | * | * | * | * | * | 2.1 | 2.1 | 2.2 |
| 65 years and over | --- | * | * | * | * | * | * | * | * |
| Hispanic female ⁵ | | | | | | | | | |
| All ages, age adjusted | --- | --- | 3.3 | 3.3 | 2.6 | 2.3 | 2.2 | 2.2 | 2.1 |
| All ages, crude | --- | --- | 3.6 | 3.4 | 2.7 | 2.3 | 2.2 | 2.2 | 2.1 |
| 15–24 years | --- | --- | 6.9 | 6.6 | 5.0 | 4.5 | 4.0 | 4.0 | 4.2 |
| 25–44 years | --- | --- | 5.1 | 4.9 | 4.1 | 3.3 | 3.0 | 3.0 | 2.8 |
| 45–64 years | --- | --- | 2.4 | 2.4 | 2.3 | 2.2 | 1.6 | 1.6 | 2.3 |
| 65 years and over | --- | --- | * | * | * | * | * | * | * |
| White, non-Hispanic female ⁵ | | | | | | | | | |
| All ages, age adjusted | --- | --- | 3.7 | 3.4 | 3.2 | 3.2 | 3.1 | 3.1 | 2.8 |
| All ages, crude | --- | --- | 3.7 | 3.5 | 3.2 | 3.3 | 3.1 | 3.1 | 2.9 |
| 15–24 years | --- | --- | 4.3 | 4.1 | 3.5 | 3.6 | 3.3 | 3.3 | 2.8 |
| 25–44 years | --- | --- | 5.1 | 4.8 | 4.5 | 4.8 | 4.5 | 4.5 | 4.2 |
| 45–64 years | --- | --- | 4.6 | 4.1 | 4.0 | 3.9 | 3.8 | 3.8 | 3.5 |
| 65 years and over | --- | --- | 3.2 | 2.9 | 2.7 | 2.7 | 2.5 | 2.5 | 2.4 |

* Based on fewer than 20 deaths.

--- Data not available.

¹Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

²Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

³Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

⁴Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

⁵Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. For data years shown, code numbers for cause of death are based on the then current revision of the *International Classification of Diseases* (ICD). See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for Hispanic and non-Hispanic white for 1985 (and 1986–89, 1991 available electronically) were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. *Vital statistics of the United States, vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Table 49. Deaths from selected occupational diseases for persons 15 years of age and over: United States, selected years 1980–99

[Data are based on the National Vital Statistics System]

| <i>Cause of death</i> ¹ | 1980 | 1985 | 1990 | 1995 | 1996 | 1997 | 1998 | 1999 ² |
|-----------------------------------------------|------------------|-------|-------|-------|-------|-------|-------|-------------------|
| Underlying and nonunderlying cause of death | Number of deaths | | | | | | | |
| Angiosarcoma of liver ³ | --- | --- | --- | --- | --- | --- | --- | 4 |
| Malignant mesothelioma ⁴ | 706 | 723 | 885 | 911 | 966 | 991 | 1,069 | 2,502 |
| Pneumoconiosis ⁵ | 4,151 | 3,783 | 3,644 | 3,151 | 3,114 | 2,928 | 2,790 | 2,739 |
| Coal workers' pneumoconiosis | 2,576 | 2,615 | 1,990 | 1,413 | 1,417 | 1,297 | 1,103 | 1,002 |
| Asbestosis | 339 | 534 | 948 | 1,169 | 1,176 | 1,171 | 1,221 | 1,259 |
| Silicosis | 448 | 334 | 308 | 242 | 212 | 198 | 178 | 185 |
| Other (including unspecified) | 814 | 321 | 413 | 343 | 325 | 275 | 311 | 308 |
| Underlying cause of death | | | | | | | | |
| Angiosarcoma of liver ³ | --- | --- | --- | --- | --- | --- | --- | 3 |
| Malignant mesothelioma ⁴ | 531 | 573 | 725 | 780 | 854 | 865 | 935 | 2,343 |
| Pneumoconiosis | 1,581 | 1,355 | 1,335 | 1,117 | 1,116 | 1,087 | 1,099 | 1,081 |
| Coal workers' pneumoconiosis | 982 | 958 | 734 | 533 | 536 | 486 | 421 | 409 |
| Asbestosis | 101 | 139 | 302 | 355 | 358 | 405 | 458 | 449 |
| Silicosis | 207 | 143 | 150 | 114 | 100 | 98 | 93 | 102 |
| Other (including unspecified) | 291 | 115 | 149 | 115 | 122 | 98 | 127 | 121 |

--- Data not available.

¹Cause-of-death titles for selected occupational diseases and corresponding code numbers according to the Ninth and Tenth Revisions, *International Classification of Diseases*.

| <i>Cause of death</i> | <i>ICD-9 code</i> | <i>ICD-10 code</i> |
|-----------------------------------------|-------------------|--------------------|
| Angiosarcoma of liver | --- | C22.3 |
| Malignant mesothelioma | 158.8, 158.9, 163 | C45 |
| Pneumoconiosis | 500-505 | J60-J66 |
| Coal workers' pneumoconiosis | 500 | J60 |
| Asbestosis | 501 | J61 |
| Silicosis | 502 | J62 |
| Other (including unspecified) | 503-505 | J63-J66 |

²Starting with 1999 data, cause of death is coded according to ICD-10. See Appendix II, *International Classification of Diseases (ICD)*. Discontinuities exist between 1998 and 1999 due to ICD-10 coding and classification changes. Caution should be exercised in interpreting trends for these causes, especially for those causes with major ICD-10 changes (e.g., malignant mesothelioma).

³Prior to 1999 there was no discrete code for this condition.

⁴Prior to 1999 the combined ICD-9 categories of malignant neoplasm of peritoneum and malignant neoplasm of pleura served as a crude surrogate for malignant mesothelioma under ICD-10.

⁵For underlying and nonunderlying cause of death, counts of deaths for pneumoconiosis subgroups may sum to slightly more than total pneumoconiosis deaths due to the reporting of more than one type of pneumoconiosis on some death certificates. The total underlying and nonunderlying pneumoconiosis death count is tracked by Healthy People 2010.

NOTES: Selection of occupational diseases is based on definitions in Mullan RJ, Murthy LI. Occupational sentinel health events: An updated list for physician recognition and public health surveillance. *Am J Ind Med* 19:775-799, 1991. For more detailed information about pneumoconiosis deaths, see *Work-Related Lung Disease Surveillance Report 1999*, DHHS (NIOSH) Publication Number 2000-105 at www.cdc.gov/niosh/w99cont.html.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics. National Vital Statistics System.

Table 57 (page 1 of 3). Limitation of activity caused by chronic conditions, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristics | 1997 | 1999 |
|------------------------------------------------------------|------|------|
| All ages | | |
| Total ^{2,3} | 13.3 | 12.2 |
| Age | | |
| Under 18 years | 6.6 | 6.0 |
| Under 5 years | 3.5 | 3.1 |
| 5–17 years | 7.8 | 7.0 |
| 18–44 years | 7.0 | 6.3 |
| 18–24 years | 5.1 | 4.4 |
| 25–44 years | 7.6 | 6.9 |
| 45–54 years | 14.2 | 13.1 |
| 55–64 years | 22.2 | 21.1 |
| 65 years and over | 38.7 | 35.6 |
| 65–74 years | 30.0 | 27.5 |
| 75 years and over | 50.2 | 45.6 |
| Sex ³ | | |
| Male | 13.1 | 12.1 |
| Female | 13.4 | 12.2 |
| Race ^{3,4} | | |
| White | 13.1 | 12.0 |
| Black | 17.1 | 15.3 |
| American Indian or Alaska Native | 23.1 | 19.9 |
| Asian or Pacific Islander | 7.5 | 7.3 |
| Race and Hispanic origin ³ | | |
| White, non-Hispanic | 13.2 | 12.3 |
| Black, non-Hispanic | 17.0 | 15.3 |
| Hispanic ⁴ | 12.8 | 10.4 |
| Mexican ⁴ | 12.5 | 9.6 |
| Poverty status ^{3,5} | | |
| Poor | 26.8 | 24.6 |
| Near poor | 19.0 | 19.1 |
| Nonpoor | 10.5 | 10.0 |
| Race and Hispanic origin and poverty status ^{3,5} | | |
| White, non-Hispanic: | | |
| Poor | 29.5 | 27.7 |
| Near poor | 20.7 | 21.6 |
| Nonpoor | 10.7 | 10.2 |
| Black, non-Hispanic: | | |
| Poor | 29.4 | 27.9 |
| Near poor | 20.0 | 19.4 |
| Nonpoor | 10.7 | 10.1 |
| Hispanic: ⁴ | | |
| Poor | 19.7 | 16.4 |
| Near poor | 13.1 | 11.4 |
| Nonpoor | 9.8 | 7.9 |
| Geographic region ³ | | |
| Northeast | 13.0 | 11.3 |
| Midwest | 13.1 | 12.9 |
| South | 13.9 | 12.6 |
| West | 13.0 | 11.7 |
| Location of residence ³ | | |
| Within MSA ⁶ | 12.7 | 11.4 |
| Outside MSA ⁶ | 15.5 | 15.1 |

See footnotes at end of table.

Table 57 (page 2 of 3). Limitation of activity caused by chronic conditions, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| <i>Characteristic</i> | <i>1997</i> | <i>1998</i> | <i>1999</i> | <i>1997</i> | <i>1998</i> | <i>1999</i> |
|---------------------------------------------------------------|------------------------------------------|-------------|-------------|-------------------------------------------|-------------|-------------|
| 65 years of age and over | Percent with ADL limitation ⁷ | | | Percent with IADL limitation ⁷ | | |
| All adults 65 years of age and over ^{2,8} | 6.7 | 6.3 | 6.3 | 13.7 | 13.5 | 12.4 |
| Age | | | | | | |
| 65–74 years | 3.4 | 3.3 | 3.1 | 6.9 | 7.1 | 6.2 |
| 75 years and over | 10.4 | 9.6 | 9.9 | 21.2 | 20.5 | 19.1 |
| Sex ⁸ | | | | | | |
| Male | 5.2 | 5.1 | 4.9 | 9.1 | 9.2 | 8.4 |
| Female | 7.7 | 7.1 | 7.2 | 16.9 | 16.4 | 15.1 |
| Race ^{4,8} | | | | | | |
| White | 6.3 | 5.8 | 5.8 | 13.1 | 12.7 | 11.6 |
| Black | 11.7 | 10.9 | 11.9 | 21.3 | 21.6 | 20.7 |
| American Indian or Alaska Native | * | * | * | * | *26.4 | *22.2 |
| Asian or Pacific Islander | * | *7.1 | * | *9.1 | 11.3 | *8.9 |
| Race and Hispanic origin ⁸ | | | | | | |
| White, non-Hispanic | 6.1 | 5.6 | 5.7 | 13.0 | 12.4 | 11.5 |
| Black, non-Hispanic | 11.7 | 11.1 | 11.9 | 21.2 | 21.8 | 20.8 |
| Hispanic ⁴ | 10.8 | 9.9 | 8.6 | 16.3 | 19.3 | 14.1 |
| Mexican ⁴ | 11.4 | 12.3 | 8.9 | 18.8 | 24.7 | 15.6 |
| Poverty status ^{5,8} | | | | | | |
| Poor | 13.0 | 9.5 | 10.1 | 26.9 | 25.3 | 22.3 |
| Near poor | 7.5 | 7.9 | 6.7 | 16.3 | 18.3 | 15.1 |
| Nonpoor | 5.3 | 4.6 | 5.5 | 10.1 | 9.7 | 9.7 |
| Race and Hispanic origin and poverty status ^{5,8} | | | | | | |
| White, non-Hispanic: | | | | | | |
| Poor | 12.7 | 8.4 | 8.8 | 27.2 | 25.3 | 21.0 |
| Near poor | 6.7 | 7.2 | 5.6 | 15.8 | 17.6 | 14.3 |
| Nonpoor | 5.0 | 4.5 | 5.3 | 10.0 | 9.3 | 9.2 |
| Black, non-Hispanic: | | | | | | |
| Poor | 12.9 | *11.6 | 13.6 | 27.4 | 27.4 | 27.4 |
| Near poor | 12.0 | 10.5 | 15.0 | 21.4 | 23.1 | 23.2 |
| Nonpoor | *10.6 | * | *8.9 | *13.0 | *14.4 | 18.3 |
| Hispanic: ⁴ | | | | | | |
| Poor | 15.5 | 11.9 | *8.4 | 25.8 | 25.1 | 17.9 |
| Near poor | 11.3 | 10.9 | *8.6 | 16.5 | 19.4 | 14.1 |
| Nonpoor | * | *5.6 | *8.1 | *9.7 | 16.1 | *10.4 |

See footnotes at end of table.

Table 57 (page 3 of 3). Limitation of activity caused by chronic conditions, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| <i>Characteristic</i> | <i>1997</i> | <i>1998</i> | <i>1999</i> | <i>1997</i> | <i>1998</i> | <i>1999</i> |
|------------------------------------------|------------------------------------------------|-------------|-------------|-------------------------------------------------|-------------|-------------|
| Geographic region⁸ | Percent with ADL limitation⁷ | | | Percent with IADL limitation⁷ | | |
| Northeast | 6.1 | 5.8 | 5.8 | 12.2 | 12.0 | 11.2 |
| Midwest | 5.8 | 5.2 | 5.4 | 13.1 | 13.4 | 12.3 |
| South | 8.2 | 6.9 | 7.1 | 15.8 | 14.0 | 13.2 |
| West | 5.9 | 7.0 | 6.7 | 12.4 | 14.3 | 12.3 |
| Location of residence⁸ | | | | | | |
| Within MSA ⁶ | 6.6 | 6.2 | 6.3 | 13.5 | 13.3 | 12.1 |
| Outside MSA ⁶ | 7.2 | 6.5 | 6.4 | 14.4 | 13.9 | 13.4 |

* Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error of 20–30 percent. Data not shown have a relative standard error of greater than 30 percent.

¹Limitation of activity is assessed by asking respondents a series of questions about limitations in their ability to perform activities usual for their age group because of a physical, mental, or emotional problem. Respondents are asked about limitations in activities of daily living, or instrumental activities of daily living, play, school, work, difficulty walking or remembering, and any other activity limitations. For reported limitations the causal health conditions are determined and respondents are considered limited if one or more of these conditions is chronic. 1998 annual estimates for activity limitation are not shown due to an error with the computer-assisted personal interview for January–June. See Appendix II, Limitation of activity, Activities of daily living, Instrumental activities of daily living.

²Includes all other races not shown separately and unknown poverty status.

³Estimates for all persons are age adjusted to the year 2000 standard using six age groups: Under 18 years, 18–44 years, 45–54 years, 55–64 years, 65–74 years, and 75 years and over. See Appendix II, Age adjustment.

⁴The race groups, white, black, American Indian or Alaska Native, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

⁵Beginning in 1997 poverty status is based on family income, family size, number of children in the family, and for families with two or fewer adults, the age of the adults in the family. Poor persons are defined as below the poverty threshold. Near poor persons have incomes of 100 percent to less than 200 percent of poverty threshold. Nonpoor persons have incomes of 200 percent or greater than the poverty threshold. See Appendix II, Family income, Poverty level. Poverty status was unknown for 20 percent of persons in the sample in 1997, 25 percent in 1998, and 28 percent in 1999.

⁶MSA is metropolitan statistical area.

⁷These estimates are for elderly noninstitutionalized persons. To determine activities of daily living (ADL) limitations respondents were asked “Because of a physical, mental, or emotional problem, does ____ need the help of other persons with personal care needs, such as eating, bathing, dressing, or getting around inside this home?” Instrumental activities of daily living (IADL) were determined by asking respondents “Because of a physical, mental, or emotional problem, does ____ need the help of other persons in handling routine needs, such as everyday household chores, doing necessary business, shopping, or getting around for other purposes?” See Appendix II, Activities of daily living, Instrumental activities of daily living.

⁸Estimates are age adjusted to the year 2000 standard using two age groups: 65–74 years and 75 years and over. See Appendix II, Age adjustment.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics. National Health Interview Survey, family core questionnaire.

Table 72 (page 1 of 2). Health care visits to doctor's offices, emergency departments, and home visits within the past 12 months, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Number of health care visits ¹ | | | | | | | | | | | |
|------------------------------------------------------------|-------------------------------------------|------|------|------------|------|------|------------|------|------|-------------------|------|------|
| | None | | | 1–3 visits | | | 4–9 visits | | | 10 or more visits | | |
| | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 |
| | Percent distribution | | | | | | | | | | | |
| All persons ^{2,3} | 16.5 | 16.0 | 17.5 | 46.2 | 46.8 | 45.8 | 23.6 | 23.8 | 23.3 | 13.7 | 13.5 | 13.4 |
| Age | | | | | | | | | | | | |
| Under 18 years | 11.8 | 11.7 | 12.4 | 54.1 | 54.5 | 54.4 | 25.2 | 25.6 | 25.0 | 8.9 | 8.2 | 8.2 |
| Under 6 years | 5.0 | 4.9 | 5.9 | 44.9 | 46.7 | 45.9 | 37.0 | 36.5 | 36.8 | 13.0 | 11.8 | 11.3 |
| 6–17 years | 15.3 | 15.0 | 15.5 | 58.7 | 58.4 | 58.5 | 19.3 | 20.2 | 19.4 | 6.8 | 6.3 | 6.7 |
| 18–44 years | 21.7 | 21.6 | 24.2 | 46.7 | 47.7 | 45.8 | 19.0 | 18.6 | 17.8 | 12.6 | 12.2 | 12.3 |
| 18–24 years | 22.0 | 22.6 | 24.8 | 46.8 | 47.7 | 46.1 | 20.0 | 18.4 | 17.8 | 11.2 | 11.2 | 11.4 |
| 25–44 years | 21.6 | 21.3 | 24.0 | 46.7 | 47.6 | 45.7 | 18.7 | 18.6 | 17.8 | 13.0 | 12.5 | 12.6 |
| 45–64 years | 16.9 | 15.9 | 16.9 | 42.9 | 43.6 | 42.4 | 24.7 | 24.3 | 25.0 | 15.5 | 16.2 | 15.7 |
| 45–54 years | 17.9 | 17.2 | 18.4 | 43.9 | 44.9 | 43.2 | 23.4 | 22.5 | 22.8 | 14.8 | 15.4 | 15.7 |
| 55–64 years | 15.3 | 13.8 | 14.7 | 41.3 | 41.6 | 41.1 | 26.7 | 27.1 | 28.4 | 16.7 | 17.5 | 15.8 |
| 65 years and over | 8.9 | 7.3 | 7.9 | 34.7 | 34.0 | 34.3 | 32.5 | 35.3 | 34.1 | 23.8 | 23.4 | 23.7 |
| 65–74 years | 9.8 | 8.4 | 8.6 | 36.9 | 36.5 | 36.9 | 31.6 | 34.3 | 33.2 | 21.6 | 20.8 | 21.3 |
| 75 years and over | 7.7 | 6.0 | 7.2 | 31.8 | 30.8 | 31.1 | 33.8 | 36.5 | 35.1 | 26.6 | 26.7 | 26.6 |
| Sex ³ | | | | | | | | | | | | |
| Male | 21.3 | 20.7 | 23.1 | 47.1 | 47.3 | 45.5 | 20.6 | 21.2 | 20.6 | 11.0 | 10.8 | 10.8 |
| Female | 11.8 | 11.3 | 12.0 | 45.4 | 46.4 | 46.1 | 26.5 | 26.3 | 25.9 | 16.3 | 16.0 | 15.9 |
| Race ^{3,4} | | | | | | | | | | | | |
| White | 16.0 | 15.5 | 16.9 | 46.1 | 46.8 | 45.7 | 23.9 | 24.1 | 23.8 | 14.0 | 13.7 | 13.6 |
| Black | 16.8 | 16.4 | 18.4 | 46.1 | 46.5 | 46.1 | 23.2 | 23.3 | 22.1 | 13.9 | 13.8 | 13.5 |
| American Indian or Alaska Native | 17.1 | 20.0 | 20.7 | 38.0 | 39.0 | 35.6 | 24.2 | 25.1 | 25.6 | 20.7 | 15.9 | 18.1 |
| Asian or Pacific Islander | 22.8 | 20.9 | 22.7 | 49.1 | 48.3 | 47.2 | 19.7 | 21.3 | 19.8 | 8.3 | 9.4 | 10.3 |
| Race and Hispanic origin ³ | | | | | | | | | | | | |
| White, non-Hispanic | 14.7 | 14.3 | 15.5 | 46.6 | 47.1 | 45.9 | 24.4 | 24.6 | 24.5 | 14.3 | 14.0 | 14.1 |
| Black, non-Hispanic | 16.9 | 16.5 | 18.3 | 46.1 | 46.5 | 46.1 | 23.1 | 23.2 | 22.1 | 13.8 | 13.8 | 13.5 |
| Hispanic ⁴ | 24.9 | 24.0 | 26.2 | 42.3 | 44.9 | 44.3 | 20.3 | 19.7 | 19.2 | 12.5 | 11.5 | 10.3 |
| Mexican ⁴ | 28.9 | 28.5 | 30.2 | 40.8 | 41.9 | 43.0 | 18.5 | 18.6 | 18.2 | 11.8 | 11.0 | 8.7 |
| Respondent-assessed health status ³ | | | | | | | | | | | | |
| Fair or poor | 7.8 | 9.7 | 9.8 | 23.3 | 23.4 | 25.9 | 29.0 | 25.3 | 24.3 | 39.9 | 41.6 | 40.1 |
| Good to excellent | 17.2 | 16.6 | 18.1 | 48.4 | 49.0 | 47.7 | 23.3 | 23.7 | 23.2 | 11.1 | 10.8 | 11.0 |
| Poverty status ^{3,5} | | | | | | | | | | | | |
| Poor | 20.3 | 20.9 | 21.5 | 37.1 | 37.8 | 39.2 | 22.7 | 22.8 | 21.3 | 19.9 | 18.5 | 18.1 |
| Near poor | 19.9 | 20.0 | 22.2 | 42.8 | 41.4 | 41.5 | 21.8 | 22.4 | 21.6 | 15.5 | 16.2 | 14.7 |
| Nonpoor | 14.0 | 13.4 | 14.9 | 48.0 | 48.6 | 47.0 | 25.0 | 25.3 | 25.0 | 13.0 | 12.7 | 13.1 |
| Race and Hispanic origin and poverty status ^{3,5} | | | | | | | | | | | | |
| White, non-Hispanic: | | | | | | | | | | | | |
| Poor | 16.3 | 17.0 | 17.0 | 37.7 | 38.3 | 38.9 | 24.0 | 24.0 | 23.3 | 22.1 | 20.7 | 20.7 |
| Near poor | 17.1 | 17.1 | 19.8 | 43.7 | 41.6 | 40.8 | 22.3 | 23.2 | 23.3 | 17.0 | 18.0 | 16.2 |
| Nonpoor | 13.2 | 12.8 | 14.0 | 47.6 | 48.1 | 46.8 | 25.7 | 25.7 | 25.5 | 13.4 | 13.4 | 13.7 |
| Black, non-Hispanic: | | | | | | | | | | | | |
| Poor | 17.8 | 18.0 | 18.2 | 37.4 | 37.9 | 40.2 | 23.3 | 25.1 | 22.8 | 21.5 | 19.1 | 18.8 |
| Near poor | 18.9 | 20.7 | 19.8 | 43.0 | 41.6 | 43.7 | 23.4 | 22.4 | 20.7 | 14.7 | 15.2 | 15.8 |
| Nonpoor | 15.6 | 13.9 | 16.3 | 50.5 | 51.0 | 47.8 | 23.3 | 24.6 | 24.1 | 10.6 | 10.5 | 11.8 |
| Hispanic: ⁴ | | | | | | | | | | | | |
| Poor | 30.6 | 30.8 | 31.2 | 33.8 | 36.6 | 38.2 | 20.0 | 17.5 | 18.7 | 15.6 | 15.1 | 11.8 |
| Near poor | 29.1 | 26.2 | 30.2 | 39.0 | 42.4 | 42.1 | 20.9 | 20.4 | 17.5 | 11.0 | 11.0 | 10.1 |
| Nonpoor | 18.7 | 17.1 | 21.0 | 48.6 | 51.4 | 46.8 | 20.3 | 22.0 | 21.9 | 12.3 | 9.5 | 10.2 |

See footnotes at end of table.

Table 72 (page 2 of 2). Health care visits to doctor's offices, emergency departments, and home visits within the past 12 months, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Number of health care visits ¹ | | | | | | | | | | | |
|-----------------------------------------------------------|-------------------------------------------|------|------|------------|------|------|------------|------|------|-------------------|------|------|
| | None | | | 1–3 visits | | | 4–9 visits | | | 10 or more visits | | |
| | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 |
| Health insurance status ^{6,7} | Percent distribution | | | | | | | | | | | |
| Under 65 years of age: | | | | | | | | | | | | |
| Insured | 14.3 | 14.0 | 15.4 | 49.0 | 49.8 | 48.6 | 23.6 | 23.3 | 23.2 | 13.1 | 12.8 | 12.7 |
| Private | 14.8 | 14.3 | 15.9 | 50.8 | 51.8 | 50.1 | 23.0 | 22.9 | 22.9 | 11.4 | 11.0 | 11.1 |
| Medicaid | 9.7 | 9.9 | 10.5 | 35.0 | 33.9 | 35.4 | 27.1 | 26.9 | 26.1 | 28.2 | 29.2 | 28.0 |
| Uninsured | 33.7 | 34.6 | 37.3 | 42.8 | 42.3 | 41.6 | 15.3 | 15.3 | 13.2 | 8.2 | 7.7 | 7.9 |
| 65 years of age and over: | | | | | | | | | | | | |
| Private | 7.4 | 5.7 | 6.5 | 36.0 | 35.4 | 34.8 | 33.7 | 36.4 | 35.0 | 22.9 | 22.5 | 23.7 |
| Medicaid | 10.2 | 6.5 | 7.0 | 21.0 | 23.6 | 23.9 | 28.1 | 30.6 | 32.7 | 40.7 | 39.4 | 36.4 |
| Medicare only | 13.0 | 11.8 | 10.7 | 35.0 | 32.7 | 35.3 | 31.0 | 33.9 | 32.8 | 21.1 | 21.6 | 21.1 |
| Poverty status and health insurance status ^{5,6} | | | | | | | | | | | | |
| Under 65 years of age: | | | | | | | | | | | | |
| Poor: | | | | | | | | | | | | |
| Insured | 13.7 | 14.5 | 14.6 | 38.8 | 40.1 | 41.4 | 24.5 | 24.5 | 23.2 | 22.9 | 20.9 | 20.7 |
| Uninsured | 36.7 | 36.8 | 39.8 | 38.8 | 37.8 | 39.3 | 14.9 | 15.7 | 12.6 | 9.5 | 9.7 | 8.3 |
| Near poor: | | | | | | | | | | | | |
| Insured | 15.6 | 15.2 | 17.0 | 45.5 | 44.1 | 44.9 | 22.3 | 22.8 | 22.6 | 16.6 | 17.9 | 15.5 |
| Uninsured | 34.5 | 35.8 | 38.0 | 41.8 | 41.1 | 40.2 | 15.6 | 15.6 | 13.4 | 8.1 | 7.5 | 8.4 |
| Nonpoor: | | | | | | | | | | | | |
| Insured | 13.4 | 13.3 | 14.7 | 50.3 | 50.9 | 49.1 | 24.2 | 24.0 | 24.2 | 12.1 | 11.8 | 12.0 |
| Uninsured | 29.1 | 29.4 | 32.9 | 45.4 | 46.4 | 43.7 | 17.0 | 16.8 | 14.6 | 8.4 | 7.3 | 8.8 |
| Geographic region ³ | | | | | | | | | | | | |
| Northeast | 13.2 | 12.1 | 12.8 | 45.9 | 47.8 | 46.4 | 26.0 | 25.4 | 25.6 | 14.9 | 14.7 | 15.2 |
| Midwest | 15.9 | 15.6 | 16.2 | 47.7 | 46.9 | 46.7 | 22.8 | 24.2 | 23.8 | 13.6 | 13.4 | 13.3 |
| South | 17.2 | 17.0 | 18.9 | 46.1 | 46.7 | 45.5 | 23.3 | 23.1 | 22.5 | 13.5 | 13.2 | 13.2 |
| West | 19.1 | 18.3 | 20.9 | 44.8 | 46.0 | 44.8 | 22.8 | 22.8 | 21.9 | 13.3 | 12.9 | 12.4 |
| Location of residence ³ | | | | | | | | | | | | |
| Within MSA ⁸ | 16.2 | 15.7 | 17.4 | 46.4 | 46.9 | 45.9 | 23.7 | 23.9 | 23.4 | 13.7 | 13.4 | 13.2 |
| Outside MSA ⁸ | 17.3 | 16.8 | 17.7 | 45.4 | 46.2 | 45.1 | 23.3 | 23.4 | 22.9 | 13.9 | 13.7 | 14.4 |

¹This table presents a summary measure of ambulatory and home health care visits during a 12-month period based on the following questions: "During the past 12 months, how many times have you gone to a hospital emergency room about your own health?"; "During the past 12 months, did you receive care at home from a nurse or other health care professional? What was the total number of home visits received?"; "During the past 12 months, how many times have you seen a doctor or other health care professional about your own health at a doctor's office, a clinic, or some other place? Do not include times you were hospitalized overnight, visits to hospital emergency rooms, home visits, or telephone calls." For each question respondents were shown a flashcard with response categories of: 0, 1, 2–3, 4–9, 10–12, or 13 or more visits. For this tabulation responses of 2–3 were recoded to 2 and responses of 4–9 were recoded to 6. The summary measure was constructed by adding recoded responses for these questions and categorizing the sum as: none, 1–3, 4–9, or 10 or more health care visits in the past 12 months. See Appendix II, Health care contact, Emergency department visit, Home visit.

²Includes all other races not shown separately, unknown poverty status, and unknown health insurance status.

³Estimates are age adjusted to the year 2000 standard using six age groups: Under 18 years, 18–44 years, 45–54 years, 55–64 years, 65–74 years, and 75 years and over. See Appendix II, Age adjustment.

⁴The race groups white, black, American Indian or Alaska Native, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

⁵Poverty status is based on family income, family size, number of children in the family, and for families with two or fewer adults the age of the adults in the family using Bureau of the Census poverty thresholds. Poor persons are defined as below the poverty threshold. Near poor persons have incomes of 100 percent to less than 200 percent of poverty threshold. Nonpoor persons have incomes of 200 percent or greater than the poverty threshold. See Appendix II, Family income, Poverty level. Poverty status was unknown for 20 percent of persons in the sample in 1997, 25 percent in 1998, and 28 percent in 1999.

⁶Estimates for persons under 65 years of age are age adjusted to the year 2000 standard using four age groups: Under 18 years, 18–44 years, 45–54 years, and 55–64 years of age. Estimates for persons 65 years of age and over are age adjusted to the year 2000 standard using two age groups: 65–74 years and 75 years and over. See Appendix II, Age adjustment.

⁷Health insurance categories are mutually exclusive. Persons who reported both Medicaid and private coverage are classified as having Medicaid coverage. Starting in 1997 Medicaid includes state-sponsored health plans and Child Health Insurance Program (CHIP). See Appendix II, Health insurance coverage.

⁸MSA is metropolitan statistical area.

NOTES: Some numbers for 1998 were revised and differ from the previous edition of *Health, United States*.

In 1997 the National Health Interview Survey questionnaire was redesigned. See Appendix I, National Health Interview Survey. Data presented in this table are not comparable with data on physician contacts presented in *Health, United States*, 1999 and earlier editions.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics. National Health Interview Survey, family core and sample adult questionnaires.

Table 73 (page 1 of 2). Vaccinations of children 19–35 months of age for selected diseases, according to race, Hispanic origin, poverty status, and residence in metropolitan statistical area (MSA): United States, 1994–2000

[Data are based on telephone interviews of a sample of the civilian noninstitutionalized population supplemented by a survey of immunization providers for interview participants]

| Vaccination and year | Race and Hispanic origin | | | | | | Poverty status | | Location of residence | | |
|---------------------------------------------|--------------------------|-------|-------|-------------------------------------------|---------------------------------|-----------------------|------------------|---------------------------|----------------------------|--------------------|----------------|
| | Non-Hispanic | | | | | | Below poverty | At or above poverty | Inside MSA ¹ | | |
| | All | White | Black | American Indian or Alaska Native | Asian or Pacific Islander | Hispanic ² | | | Central city | Remaining areas | Outside MSA |
| | | | | | | | | | | | |
| Percent of children 19–35 months of age | | | | | | | | | | | |
| Combined series (4:3:1:3): ³ | | | | | | | | | | | |
| 1994..... | 69 | 72 | 67 | 82 | 60 | 62 | 61 | 72 | 68 | 70 | 70 |
| 1995..... | 74 | 77 | 70 | 70 | 75 | 69 | 67 | 77 | 73 | 76 | 75 |
| 1996..... | 77 | 79 | 74 | 80 | 78 | 71 | 69 | 80 | 74 | 78 | 77 |
| 1997..... | 76 | 79 | 73 | 72 | 70 | 72 | 71 | 79 | 74 | 78 | 77 |
| 1998..... | 79 | 82 | 73 | 78 | 79 | 75 | 74 | 82 | 77 | 81 | 81 |
| 1999..... | 78 | 81 | 74 | 75 | 77 | 75 | 73 | 81 | 77 | 79 | 80 |
| 2000..... | 76 | 79 | 71 | 69 | 75 | 73 | 71 | 78 | 73 | 78 | 79 |
| DTP/DT/DTaP (4 doses or more): ⁴ | | | | | | | | | | | |
| 1994..... | 76 | 80 | 72 | 84 | 84 | 70 | 69 | 79 | 75 | 77 | 78 |
| 1995..... | 79 | 81 | 74 | 73 | 82 | 75 | 71 | 81 | 77 | 80 | 79 |
| 1996..... | 81 | 83 | 79 | 83 | 84 | 77 | 73 | 84 | 80 | 83 | 81 |
| 1997..... | 81 | 84 | 78 | 80 | 80 | 77 | 76 | 84 | 80 | 83 | 81 |
| 1998..... | 84 | 87 | 77 | 83 | 89 | 81 | 80 | 86 | 82 | 85 | 85 |
| 1999..... | 83 | 86 | 79 | 80 | 87 | 80 | 79 | 85 | 82 | 84 | 83 |
| 2000..... | 82 | 84 | 76 | 75 | 85 | 79 | 76 | 84 | 80 | 83 | 83 |
| Polio (3 doses or more): | | | | | | | | | | | |
| 1994..... | 83 | 85 | 79 | 90 | 92 | 81 | 78 | 85 | 83 | 84 | 83 |
| 1995..... | 88 | 89 | 84 | 87 | 89 | 87 | 84 | 89 | 87 | 88 | 89 |
| 1996..... | 91 | 92 | 90 | 89 | 90 | 89 | 88 | 92 | 89 | 92 | 92 |
| 1997..... | 91 | 92 | 90 | 91 | 88 | 90 | 90 | 92 | 90 | 91 | 92 |
| 1998..... | 91 | 92 | 88 | 85 | 93 | 89 | 90 | 92 | 89 | 91 | 93 |
| 1999..... | 90 | 90 | 87 | 88 | 90 | 89 | 87 | 91 | 89 | 90 | 90 |
| 2000..... | 90 | 91 | 87 | 90 | 93 | 88 | 87 | 90 | 88 | 90 | 91 |
| Measles-containing: ⁵ | | | | | | | | | | | |
| 1994..... | 89 | 90 | 86 | 90 | 95 | 88 | 87 | 90 | 90 | 90 | 87 |
| 1995..... | 90 | 91 | 86 | 88 | 95 | 88 | 85 | 91 | 89 | 91 | 90 |
| 1996..... | 91 | 92 | 89 | 87 | 94 | 88 | 87 | 92 | 90 | 92 | 91 |
| 1997..... | 91 | 92 | 90 | 92 | 89 | 88 | 86 | 92 | 90 | 91 | 90 |
| 1998..... | 92 | 93 | 89 | 91 | 92 | 91 | 90 | 93 | 92 | 92 | 93 |
| 1999..... | 92 | 92 | 90 | 92 | 93 | 90 | 90 | 92 | 91 | 92 | 90 |
| 2000..... | 91 | 92 | 88 | 87 | 90 | 90 | 89 | 91 | 90 | 91 | 91 |
| Hib (3 doses or more): ⁶ | | | | | | | | | | | |
| 1994..... | 86 | 87 | 85 | 90 | 70 | 84 | 81 | 88 | 86 | 87 | 86 |
| 1995..... | 92 | 93 | 89 | 92 | 91 | 90 | 88 | 93 | 91 | 92 | 92 |
| 1996..... | 92 | 93 | 90 | 90 | 92 | 89 | 88 | 93 | 90 | 93 | 92 |
| 1997..... | 93 | 94 | 92 | 87 | 89 | 90 | 90 | 94 | 92 | 94 | 94 |
| 1998..... | 93 | 95 | 90 | 90 | 92 | 92 | 91 | 95 | 92 | 94 | 94 |
| 1999..... | 94 | 95 | 92 | 91 | 90 | 92 | 91 | 95 | 92 | 95 | 93 |
| 2000..... | 93 | 95 | 93 | 90 | 92 | 91 | 90 | 95 | 92 | 94 | 95 |
| Hepatitis B (3 doses or more): | | | | | | | | | | | |
| 1994..... | 37 | 40 | 29 | 43 | 39 | 33 | 25 | 41 | 36 | 40 | 28 |
| 1995..... | 68 | 68 | 65 | 55 | 80 | 69 | 64 | 69 | 68 | 71 | 60 |
| 1996..... | 82 | 82 | 82 | 78 | 84 | 80 | 78 | 83 | 81 | 83 | 80 |
| 1997..... | 84 | 85 | 83 | 83 | 88 | 81 | 80 | 85 | 82 | 85 | 85 |
| 1998..... | 87 | 88 | 84 | 82 | 89 | 86 | 85 | 88 | 85 | 88 | 87 |
| 1999..... | 88 | 89 | 87 | * | 88 | 87 | 87 | 89 | 87 | 89 | 88 |
| 2000..... | 90 | 91 | 89 | 91 | 91 | 88 | 87 | 91 | 89 | 90 | 92 |
| Varicella: ⁷ | | | | | | | | | | | |
| 1997..... | 26 | 28 | 21 | 20 | 36 | 22 | 17 | 29 | 26 | 29 | 17 |
| 1998..... | 43 | 42 | 42 | 28 | 53 | 47 | 41 | 44 | 45 | 45 | 34 |
| 1999..... | 58 | 56 | 58 | * | 64 | 61 | 55 | 58 | 59 | 61 | 47 |
| 2000..... | 68 | 66 | 67 | 62 | 77 | 70 | 64 | 69 | 69 | 70 | 60 |

See footnotes at end of table.

Table 73 (page 2 of 2). Vaccinations of children 19–35 months of age for selected diseases, according to race, Hispanic origin, poverty status, and residence in metropolitan statistical area (MSA): United States, 1994–2000

[Data are based on telephone interviews of a sample of the civilian noninstitutionalized population supplemented by a survey of immunization providers for interview participants]

| Vaccination and year | Non-Hispanic | | | | | |
|-----------------------------------------|-----------------------------------------|---------------------------|------------------|---------------------------|-----------------------|---------------------------|
| | White | | Black | | Hispanic ² | |
| | Below poverty | At or above poverty | Below poverty | At or above poverty | Below poverty | At or above poverty |
| Combined series (4:3:1:3): ³ | Percent of children 19–35 months of age | | | | | |
| 1995 | 68 | 79 | 66 | 75 | 65 | 72 |
| 1996 | 68 | 81 | 70 | 78 | 68 | 74 |
| 1997 | 70 | 76 | 72 | 80 | 71 | 77 |
| 1998 | 77 | 83 | 72 | 74 | 73 | 79 |
| 1999 | 76 | 82 | 72 | 77 | 73 | 78 |
| 2000 | 73 | 80 | 69 | 72 | 70 | 74 |

* Beginning in 1999, percents not shown if the unweighted sample size for the numerator was >0.5 or confidence interval half width >10.

¹Metropolitan statistical area.

²Persons of Hispanic origin may be of any race.

³The 4:3:1:3 combined series consists of 4 or more doses of diphtheria and tetanus toxoids and pertussis vaccine (DTP), diphtheria and tetanus toxoids (DT), or diphtheria and tetanus toxoids and acellular pertussis vaccine (DTaP), 3 or more doses of oral poliovirus vaccine, 1 or more doses of a measles-containing vaccine (MCV), and 3 or more doses of *Haemophilus influenzae* type b vaccine (Hib).

⁴Diphtheria and tetanus toxoids and pertussis vaccine, diphtheria and tetanus toxoids, and diphtheria and tetanus toxoids and acellular pertussis vaccine.

⁵Respondents were asked about measles-containing or MMR (measles-mumps-rubella) vaccines.

⁶*Haemophilus influenzae* type b vaccine (Hib).

⁷Recommended in 1996. Data collection for varicella began in July 1996.

NOTES: Final estimates of data from the National Immunization Survey include an adjustment for children with missing immunization provider data. Poverty status is based on family income and family size using Bureau of the Census poverty thresholds. Children missing information about poverty status were omitted from analysis by poverty level. In 2000, 14.2 percent of all children, 17.9 percent of Hispanic, 12.1 percent of non-Hispanic white, and 16.1 percent of non-Hispanic black children were missing information about poverty status and were omitted. See Appendix I, National Immunization Survey.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics and National Immunization Program. Data from the National Immunization Survey.

Table 74 (page 1 of 2). Vaccination coverage among children 19–35 months of age according to geographic division, State, and selected urban areas: United States, 1994–2000

[Data are based on telephone interviews of a sample of the civilian noninstitutionalized population supplemented by a survey of immunization providers for interview participants]

| <i>Geographic division and State</i> | <i>1994</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>1999</i> | <i>2000</i> |
|--------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent of children 19–35 months of age with 4:3:1:3 series ¹ | | | | | | | |
| United States | 69 | 74 | 77 | 76 | 79 | 78 | 76 |
| New England: | | | | | | | |
| Maine | 75 | 87 | 85 | 84 | 86 | 83 | 83 |
| New Hampshire | 78 | 86 | 83 | 84 | 82 | 85 | 83 |
| Vermont | 82 | 84 | 85 | 84 | 86 | 91 | 83 |
| Massachusetts | 77 | 80 | 86 | 86 | 87 | 85 | 85 |
| Rhode Island | 78 | 82 | 85 | 81 | 86 | 87 | 82 |
| Connecticut | 81 | 83 | 87 | 85 | 90 | 86 | 85 |
| Middle Atlantic: | | | | | | | |
| New York | 72 | 77 | 79 | 76 | 85 | 81 | 75 |
| New Jersey | 67 | 72 | 77 | 76 | 82 | 81 | 76 |
| Pennsylvania | 71 | 76 | 79 | 80 | 83 | 86 | 78 |
| East North Central: | | | | | | | |
| Ohio | 70 | 73 | 77 | 73 | 78 | 78 | 72 |
| Indiana | 69 | 75 | 70 | 72 | 78 | 74 | 76 |
| Illinois | 60 | 79 | 75 | 74 | 78 | 77 | 75 |
| Michigan | 55 | 67 | 74 | 75 | 78 | 74 | 75 |
| Wisconsin | 70 | 74 | 76 | 79 | 78 | 85 | 80 |
| West North Central: | | | | | | | |
| Minnesota | 74 | 76 | 83 | 78 | 82 | 85 | 86 |
| Iowa | 75 | 82 | 80 | 76 | 82 | 83 | 83 |
| Missouri | 59 | 75 | 74 | 77 | 85 | 75 | 78 |
| North Dakota | 73 | 81 | 81 | 82 | 79 | 80 | 81 |
| South Dakota | 67 | 79 | 80 | 76 | 74 | 82 | 78 |
| Nebraska | 62 | 75 | 80 | 75 | 76 | 82 | 79 |
| Kansas | 76 | 70 | 73 | 82 | 82 | 79 | 76 |
| South Atlantic: | | | | | | | |
| Delaware | 77 | 72 | 80 | 79 | 79 | 78 | 75 |
| Maryland | 75 | 78 | 78 | 80 | 77 | 79 | 78 |
| District of Columbia | 67 | 67 | 78 | 73 | 71 | 78 | 71 |
| Virginia | 76 | 71 | 77 | 72 | 80 | 80 | 74 |
| West Virginia | 62 | 71 | 71 | 80 | 82 | 81 | 76 |
| North Carolina | 75 | 80 | 77 | 80 | 83 | 82 | 87 |
| South Carolina | 78 | 80 | 84 | 79 | 88 | 81 | 80 |
| Georgia | 75 | 77 | 80 | 79 | 80 | 82 | 81 |
| Florida | 72 | 75 | 77 | 77 | 79 | 80 | 74 |
| East South Central: | | | | | | | |
| Kentucky | 74 | 79 | 76 | 79 | 82 | 88 | 81 |
| Tennessee | 68 | 73 | 77 | 77 | 82 | 78 | 81 |
| Alabama | 70 | 75 | 75 | 85 | 82 | 78 | 81 |
| Mississippi | 79 | 81 | 79 | 80 | 84 | 82 | 81 |
| West South Central: | | | | | | | |
| Arkansas | 64 | 73 | 72 | 77 | 73 | 77 | 72 |
| Louisiana | 66 | 76 | 79 | 76 | 78 | 77 | 75 |
| Oklahoma | 70 | 73 | 73 | 71 | 75 | 73 | 71 |
| Texas | 65 | 73 | 72 | 74 | 74 | 72 | 69 |
| Mountain: | | | | | | | |
| Montana | 69 | 71 | 77 | 74 | 82 | 83 | 77 |
| Idaho | 58 | 64 | 66 | 70 | 76 | 69 | 74 |
| Wyoming | 71 | 71 | 77 | 72 | 80 | 83 | 79 |
| Colorado | 66 | 77 | 76 | 72 | 76 | 76 | 74 |
| New Mexico | 66 | 76 | 79 | 75 | 71 | 73 | 68 |
| Arizona | 70 | 70 | 70 | 73 | 76 | 72 | 72 |
| Utah | 62 | 66 | 63 | 69 | 76 | 80 | 77 |
| Nevada | 63 | 65 | 70 | 71 | 76 | 73 | 74 |
| Pacific: | | | | | | | |
| Washington | 68 | 77 | 78 | 79 | 81 | 75 | 77 |
| Oregon | 64 | 72 | 70 | 72 | 76 | 72 | 79 |
| California | 67 | 69 | 76 | 74 | 76 | 75 | 75 |
| Alaska | 65 | 72 | 69 | 75 | 81 | 80 | 77 |
| Hawaii | 78 | 78 | 77 | 79 | 79 | 82 | 75 |

See footnotes at end of table.

Table 74 (page 2 of 2). Vaccination coverage among children 19–35 months of age according to geographic division, State, and selected urban areas: United States, 1994–2000

[Data are based on telephone interviews of a sample of the civilian noninstitutionalized population supplemented by a survey of immunization providers for interview participants]

| <i>Geographic division and urban areas</i> | <i>1994</i> | <i>1995</i> | <i>1996</i> | <i>1997</i> | <i>1998</i> | <i>1999</i> | <i>2000</i> |
|--------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent of children 19–35 months of age with 4:3:1:3 series ¹ | | | | | | | |
| New England: | | | | | | | |
| Boston, Massachusetts | 87 | 87 | 84 | 86 | 89 | 84 | 79 |
| Middle Atlantic: | | | | | | | |
| New York City, New York | 73 | 78 | 75 | 75 | 81 | 78 | 68 |
| Newark, New Jersey | 46 | 67 | 62 | 66 | 64 | 67 | 63 |
| Philadelphia, Pennsylvania | 67 | 67 | 75 | 78 | 80 | 81 | 74 |
| East North Central: | | | | | | | |
| Cuyahoga County (Cleveland), Ohio | 82 | 71 | 80 | 73 | 75 | 74 | 73 |
| Franklin County (Columbus), Ohio | 71 | 74 | 78 | 74 | 78 | 78 | 77 |
| Marion County (Indianapolis), Indiana | 72 | 75 | 72 | 81 | 78 | 79 | 69 |
| Chicago, Illinois | 55 | 69 | 74 | 68 | 64 | 71 | 65 |
| Detroit, Michigan | 45 | 57 | 63 | 65 | 70 | 66 | 59 |
| Milwaukee County (Milwaukee), Wisconsin | 72 | 68 | 70 | 70 | 73 | 74 | 69 |
| South Atlantic: | | | | | | | |
| Baltimore, Maryland | 74 | 75 | 81 | 83 | 81 | 72 | 70 |
| District of Columbia | 67 | 67 | 78 | 73 | 71 | 78 | 71 |
| Fulton/DeKalb Counties (Atlanta), Georgia | 72 | 79 | 74 | 75 | 71 | 83 | 80 |
| Dade County (Miami), Florida | 73 | 77 | 76 | 75 | 75 | 84 | 78 |
| Duval County (Jacksonville), Florida | 69 | 71 | 76 | 70 | 79 | 78 | 79 |
| East South Central: | | | | | | | |
| Davidson County (Nashville), Tennessee | 65 | 73 | 77 | 77 | 80 | 73 | 73 |
| Shelby County (Memphis), Tennessee | 67 | 68 | 70 | 70 | 71 | 75 | 77 |
| Jefferson County (Birmingham), Alabama | 72 | 85 | 77 | 82 | 85 | 85 | 79 |
| West South Central: | | | | | | | |
| Orleans Parish (New Orleans), Louisiana | 59 | 75 | 71 | 69 | 79 | 72 | 70 |
| Bexar County (San Antonio), Texas | 60 | 74 | 74 | 79 | 79 | 70 | 68 |
| Dallas County (Dallas), Texas | 62 | 70 | 71 | 74 | 71 | 72 | 67 |
| El Paso County (El Paso), Texas | 78 | 77 | 62 | 65 | 78 | 73 | 70 |
| Houston, Texas | 57 | 70 | 68 | 64 | 61 | 63 | 65 |
| Mountain: | | | | | | | |
| Maricopa County (Phoenix), Arizona | 71 | 69 | 71 | 72 | 77 | 71 | 71 |
| Pacific: | | | | | | | |
| King County (Seattle), Washington | 70 | 82 | 81 | 77 | 86 | 77 | 75 |
| Los Angeles County (Los Angeles), California | 65 | 70 | 79 | 71 | 76 | 76 | 77 |
| San Diego County (San Diego), California | 68 | 73 | 77 | 78 | 77 | 75 | 76 |
| Santa Clara County (Santa Clara), California | 78 | 74 | 79 | 73 | 84 | 82 | 76 |

¹The 4:3:1:3 combined series consists of 4 or more doses of diphtheria and tetanus toxoids and pertussis vaccine (DTP), diphtheria and tetanus toxoids (DT), or diphtheria and tetanus toxoids and acellular pertussis vaccine (DTaP), 3 or more doses of oral poliovirus vaccine, 1 or more doses of a measles-containing vaccine (MCV), and 3 or more doses of *Haemophilus influenzae* type b vaccine (Hib).

NOTES: Urban areas were chosen because they were high risk for under-vaccination. Final estimates of data from the National Immunization Survey include an adjustment for children with missing immunization provider data.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics and National Immunization Program. National, State, and Urban Area Vaccination Coverage Levels Among Children Aged 19–35 Months—United States, 1994–2000, data are available on the CDC Web site at www.cdc.gov/nip/coverage/.

Table 75 (page 1 of 2). No health care visits to an office or clinic within the past 12 months among children under 18 years of age, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Under 18 years of age | | | Under 6 years of age | | | 6–17 years of age | | |
|--------------------------------------------------------------|--------------------------|------|-------|-------------------------|-------|-------|----------------------|------|-------|
| | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 |
| Percent of children without a health care visit ¹ | | | | | | | | | |
| All children ² | 12.8 | 12.8 | 13.2 | 5.7 | 5.7 | 6.6 | 16.4 | 16.3 | 16.4 |
| Race ³ | | | | | | | | | |
| White | 12.2 | 12.1 | 12.4 | 5.6 | 5.3 | 6.2 | 15.6 | 15.5 | 15.3 |
| Black | 13.8 | 14.9 | 14.7 | 5.2 | 7.8 | 7.7 | 18.1 | 18.2 | 17.9 |
| American Indian or Alaska Native | *15.7 | * | *21.5 | * | * | * | *19.8 | * | *26.7 |
| Asian or Pacific Islander | 16.0 | 16.6 | 17.1 | * | * | * | 21.5 | 22.8 | 23.9 |
| Race and Hispanic origin | | | | | | | | | |
| White, non-Hispanic | 10.7 | 10.7 | 10.7 | 4.4 | 4.3 | 5.2 | 13.7 | 13.7 | 13.2 |
| Black, non-Hispanic | 14.1 | 14.9 | 14.6 | 5.1 | 8.0 | 7.8 | 18.4 | 18.2 | 17.7 |
| Hispanic ³ | 19.5 | 19.1 | 20.6 | 10.5 | 8.9 | 10.0 | 25.2 | 25.4 | 27.0 |
| Poverty status ⁴ | | | | | | | | | |
| Poor | 17.6 | 17.8 | 19.2 | 7.3 | 9.0 | 12.1 | 24.4 | 23.2 | 23.0 |
| Near poor | 16.9 | 15.2 | 17.3 | 7.4 | 6.6 | 8.2 | 21.8 | 19.7 | 22.2 |
| Nonpoor | 9.7 | 9.7 | 9.7 | 4.1 | 3.6 | 4.4 | 12.4 | 12.5 | 12.1 |
| Race and Hispanic origin and poverty status ⁴ | | | | | | | | | |
| White, non-Hispanic: | | | | | | | | | |
| Poor | 14.3 | 13.0 | 13.4 | *5.7 | * | * | 20.0 | 18.5 | 15.8 |
| Near poor | 14.3 | 13.8 | 14.7 | *6.5 | *5.4 | *6.5 | 18.2 | 17.9 | 19.0 |
| Nonpoor | 9.1 | 9.1 | 9.1 | 3.5 | 3.3 | 4.3 | 11.7 | 11.6 | 11.1 |
| Black, non-Hispanic: | | | | | | | | | |
| Poor | 15.4 | 16.9 | 16.4 | * | *10.1 | *9.6 | 21.7 | 20.4 | 19.8 |
| Near poor | 19.3 | 13.8 | 17.7 | * | * | *10.3 | 24.9 | 16.9 | 21.3 |
| Nonpoor | 11.5 | 13.0 | 10.3 | * | * | * | 14.4 | 17.0 | 12.7 |
| Hispanic: ³ | | | | | | | | | |
| Poor | 23.5 | 23.3 | 26.2 | 11.5 | 12.1 | 17.2 | 31.7 | 30.7 | 32.7 |
| Near poor | 20.7 | 19.6 | 22.7 | 9.8 | 8.9 | 10.5 | 27.6 | 27.0 | 29.5 |
| Nonpoor | 13.3 | 12.5 | 13.4 | *9.4 | *4.9 | *4.0 | 15.5 | 16.9 | 18.1 |
| Health insurance status ⁵ | | | | | | | | | |
| Insured | 10.2 | 10.6 | 10.6 | 4.4 | 4.6 | 4.7 | 13.2 | 13.6 | 13.5 |
| Private | 10.4 | 10.4 | 10.5 | 4.4 | 4.3 | 4.4 | 13.1 | 13.2 | 13.1 |
| Medicaid | 9.3 | 10.5 | 10.9 | 4.5 | 5.5 | 5.7 | 13.4 | 14.4 | 14.8 |
| Uninsured | 29.0 | 28.6 | 32.6 | 14.7 | 14.5 | 21.6 | 35.0 | 34.7 | 37.2 |
| Poverty status and health insurance status ⁴ | | | | | | | | | |
| Poor: | | | | | | | | | |
| Insured | 12.5 | 13.9 | 12.7 | 5.0 | *6.6 | 7.3 | 18.0 | 18.8 | 15.8 |
| Uninsured | 36.4 | 32.3 | 42.3 | 19.2 | 20.0 | 35.0 | 42.9 | 37.8 | 45.2 |
| Near poor: | | | | | | | | | |
| Insured | 13.7 | 11.4 | 13.1 | 5.0 | *3.8 | 5.5 | 18.3 | 15.5 | 17.4 |
| Uninsured | 28.2 | 27.5 | 32.2 | *16.9 | 16.9 | 19.9 | 32.9 | 32.6 | 37.3 |
| Nonpoor: | | | | | | | | | |
| Insured | 8.7 | 9.0 | 9.1 | 3.7 | 3.5 | 3.9 | 11.1 | 11.6 | 11.5 |
| Uninsured | 22.6 | 23.5 | 21.9 | * | * | *15.3 | 27.7 | 29.7 | 24.8 |

See footnotes at end of table.

Table 75 (page 2 of 2). No health care visits to an office or clinic within the past 12 months among children under 18 years of age, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Under 18 years of age | | | Under 6 years of age | | | 6–17 years of age | | |
|------------------------------------|--------------------------------------------------------------|------|------|-------------------------|------|------|----------------------|------|------|
| | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 |
| Geographic region | Percent of children without a health care visit ¹ | | | | | | | | |
| Northeast | 7.1 | 6.9 | 6.6 | *3.0 | *3.2 | *4.6 | 9.3 | 8.6 | 7.7 |
| Midwest | 11.8 | 12.7 | 11.8 | 5.7 | 6.2 | 5.9 | 14.7 | 15.8 | 14.5 |
| South | 14.8 | 13.7 | 14.7 | 5.3 | 5.9 | 7.0 | 19.5 | 17.6 | 18.4 |
| West. | 16.0 | 16.7 | 17.9 | 8.8 | 7.0 | 8.3 | 19.8 | 21.6 | 22.8 |
| Location of residence | | | | | | | | | |
| Within MSA ⁶ | 12.3 | 12.3 | 12.9 | 5.3 | 5.6 | 6.0 | 16.1 | 15.7 | 16.4 |
| Outside MSA ⁶ | 14.6 | 14.6 | 14.1 | 7.6 | 6.2 | 9.0 | 17.4 | 18.5 | 16.2 |

* Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error of 20–30 percent. Data not shown have a relative standard error of greater than 30 percent.

¹ Respondents were asked how many times a doctor or other health care professional was seen in the past 12 months at a doctor's office, clinic, or some other place. Excluded are visits to emergency rooms, hospitalizations, home visits, and telephone calls. This table presents the percent of children with no visits in the past 12 months. See Appendix II, Health care contact.

² Includes all other races not shown separately, unknown poverty status, and unknown health insurance status.

³ The race groups white, black, American Indian or Alaska Native, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

⁴ Poverty status is based on family income, family size, number of children in the family, and for families with two or fewer adults the age of the adults in the family, using Bureau of the Census poverty thresholds. Poor persons are defined as below the poverty threshold. Near poor persons have incomes of 100 percent to less than 200 percent of poverty threshold. Nonpoor persons have incomes of 200 percent or greater than the poverty threshold. See Appendix II, Family income, Poverty level. Poverty status was unknown for 17 percent of children in the sample in 1997, 21 percent in 1998, and 24 percent in 1999.

⁵ Health insurance categories are mutually exclusive. Persons who reported both Medicaid and private coverage are classified as having Medicaid coverage. Starting in 1997 Medicaid includes state-sponsored health plans and Child Health Insurance Program (CHIP). See Appendix II, Health insurance coverage.

⁶ MSA is metropolitan statistical area.

NOTES: In 1997 the National Health Interview Survey questionnaire was redesigned. See Appendix I, National Health Interview Survey. Data presented in this table are not comparable with data on percent of children without a physician contact within the past 12 months presented in *Health, United States*, 1996–97, 1998, and 1999. Some numbers for 1998 were revised and differ from the previous edition of *Health, United States*.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics. National Health Interview Survey, family core and sample child questionnaires.

Table 76 (page 1 of 2). No usual source of health care among children under 18 years of age, according to selected characteristics: United States, average annual 1993–94, 1995–96, and 1998–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Under 18 years of age | | | Under 6 years of age | | | 6–17 years of age | | |
|------------------------------------------------------------------------|--------------------------|---------|----------------------|-------------------------|---------|----------------------|----------------------|---------|----------------------|
| | 1993–94 | 1995–96 | 1998–99 ¹ | 1993–94 | 1995–96 | 1998–99 ¹ | 1993–94 | 1995–96 | 1998–99 ¹ |
| Percent of children without a usual source of health care ² | | | | | | | | | |
| All children ³ | 7.7 | 6.4 | 6.6 | 5.2 | 4.4 | 4.4 | 9.0 | 7.4 | 7.7 |
| Race ⁴ | | | | | | | | | |
| White | 7.0 | 6.1 | 5.8 | 4.7 | 4.3 | 4.0 | 8.3 | 7.0 | 6.7 |
| Black | 10.3 | 7.5 | 8.2 | 7.6 | 5.2 | 5.0 | 11.9 | 8.7 | 9.6 |
| American Indian or Alaska Native | *9.3 | *5.2 | *11.9 | * | * | * | *8.7 | *6.6 | *11.8 |
| Asian or Pacific Islander | 9.7 | 8.4 | 9.2 | *3.4 | * | * | 13.5 | 10.8 | 11.9 |
| Race and Hispanic origin | | | | | | | | | |
| White, non-Hispanic | 5.7 | 4.6 | 4.3 | 3.7 | 3.2 | 3.0 | 6.7 | 5.3 | 5.0 |
| Black, non-Hispanic | 10.2 | 7.5 | 8.0 | 7.7 | 5.3 | 4.8 | 11.6 | 8.7 | 9.5 |
| Hispanic ⁴ | 14.3 | 13.2 | 14.0 | 9.3 | 8.7 | 8.4 | 17.7 | 16.1 | 17.4 |
| Poverty status ⁵ | | | | | | | | | |
| Poor | 13.9 | 10.7 | 12.6 | 9.4 | 7.2 | 8.1 | 16.8 | 12.9 | 15.2 |
| Near poor | 9.8 | 9.0 | 10.2 | 6.7 | 6.1 | 7.4 | 11.6 | 10.5 | 11.6 |
| Nonpoor | 3.7 | 3.4 | 3.4 | 1.8 | 2.1 | 2.0 | 4.6 | 4.0 | 4.0 |
| Race and Hispanic origin and poverty status ⁵ | | | | | | | | | |
| White, non-Hispanic: | | | | | | | | | |
| Poor | 10.2 | 9.2 | 11.0 | 6.5 | 6.7 | *7.9 | 12.7 | 10.7 | 12.8 |
| Near poor | 8.7 | 6.7 | 7.0 | 6.3 | 4.6 | 5.1 | 10.1 | 7.8 | 8.0 |
| Nonpoor | 3.4 | 2.9 | 2.8 | 1.6 | 1.8 | 1.8 | 4.2 | 3.5 | 3.3 |
| Black, non-Hispanic: | | | | | | | | | |
| Poor | 13.7 | 8.4 | 8.6 | 10.9 | 6.6 | *5.2 | 15.5 | 9.6 | 10.2 |
| Near poor | 9.1 | 9.9 | 10.2 | *6.0 | 5.8 | *6.6 | 10.8 | 12.0 | 11.9 |
| Nonpoor | 4.6 | 3.9 | 5.0 | * | *2.2 | * | 5.8 | 4.6 | 5.9 |
| Hispanic: ⁴ | | | | | | | | | |
| Poor | 19.6 | 15.0 | 18.0 | 12.7 | 9.0 | 10.6 | 24.8 | 19.2 | 23.2 |
| Near poor | 15.3 | 16.2 | 17.3 | 9.9 | 11.8 | 12.0 | 18.9 | 18.9 | 20.6 |
| Nonpoor | 5.0 | 7.1 | 6.0 | *2.7 | 4.7 | *3.1 | 6.5 | 8.5 | 7.5 |
| Health insurance status ⁶ | | | | | | | | | |
| Insured | 5.0 | 3.9 | 3.7 | 3.3 | 2.6 | 2.3 | 5.9 | 4.5 | 4.4 |
| Private | 3.8 | 3.1 | 3.1 | 2.0 | 1.7 | 1.8 | 4.6 | 3.7 | 3.7 |
| Medicaid | 8.5 | 6.2 | 5.7 | 6.0 | 4.4 | 3.7 | 10.8 | 7.7 | 7.1 |
| Uninsured | 23.5 | 22.3 | 28.2 | 18.0 | 17.5 | 21.5 | 26.0 | 24.4 | 31.1 |
| Poverty status and health insurance status ⁵ | | | | | | | | | |
| Poor: | | | | | | | | | |
| Insured | 9.1 | 6.2 | 6.5 | 6.0 | 4.5 | 3.6 | 11.5 | 7.4 | 8.3 |
| Uninsured | 29.4 | 27.1 | 35.3 | 25.0 | 22.5 | 30.0 | 31.5 | 28.9 | 37.6 |
| Near poor: | | | | | | | | | |
| Insured | 6.0 | 5.0 | 5.1 | 4.0 | 3.3 | 3.6 | 7.2 | 6.0 | 5.9 |
| Uninsured | 22.9 | 22.5 | 27.6 | 18.0 | 17.9 | 22.7 | 25.3 | 24.5 | 29.7 |
| Nonpoor: | | | | | | | | | |
| Insured | 2.9 | 2.6 | 2.6 | 1.5 | 1.5 | 1.5 | 3.6 | 3.1 | 3.0 |
| Uninsured | 14.5 | 15.3 | 19.5 | 6.4 | 11.2 | *12.2 | 18.1 | 17.5 | 22.4 |

See footnotes at end of table.

Table 76 (page 2 of 2). No usual source of health care among children under 18 years of age, according to selected characteristics: United States, average annual 1993–94, 1995–96, and 1998–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Under 18 years of age | | | Under 6 years of age | | | 6–17 years of age | | |
|------------------------------------|------------------------------------------------------------------------|---------|----------------------|-------------------------|---------|----------------------|----------------------|---------|----------------------|
| | 1993–94 | 1995–96 | 1998–99 ¹ | 1993–94 | 1995–96 | 1998–99 ¹ | 1993–94 | 1995–96 | 1998–99 ¹ |
| Geographic region | Percent of children without a usual source of health care ² | | | | | | | | |
| Northeast | 4.1 | 3.2 | 2.5 | 2.9 | 2.3 | *1.9 | 4.8 | 3.7 | 2.8 |
| Midwest | 5.2 | 4.3 | 4.4 | 4.1 | 3.3 | 3.5 | 5.9 | 4.8 | 4.8 |
| South | 10.9 | 7.9 | 8.6 | 7.3 | 5.1 | 5.7 | 12.7 | 9.3 | 10.0 |
| West. | 8.6 | 9.3 | 9.7 | 5.3 | 6.4 | 5.6 | 10.6 | 10.8 | 11.7 |
| Location of residence | | | | | | | | | |
| Within MSA ⁷ | 7.7 | 6.5 | 6.7 | 5.0 | 4.5 | 4.5 | 9.2 | 7.5 | 7.8 |
| Outside MSA ⁷ | 7.8 | 6.1 | 6.4 | 6.0 | 4.0 | 3.9 | 8.7 | 7.1 | 7.5 |

* Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error of 20–30 percent. Data not shown have a relative standard error of greater than 30 percent.

¹Data starting in 1997 are not strictly comparable with data for earlier years due to the 1997 questionnaire redesign. See Appendix I, National Health Interview Survey.

²Persons who report the emergency department as the place of their usual source of care are defined as having no usual source of care. See Appendix II, Usual source of care.

³Includes all other races not shown separately, unknown poverty status, and unknown health insurance status.

⁴The race groups white, black, American Indian or Alaska Native, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

⁵Prior to 1997 poverty status is based on family income and family size using Bureau of the Census poverty thresholds. Beginning in 1997 poverty status is based on family income, family size, number of children in the family, and for families with two or fewer adults the age of the adults in the family. Poor persons are defined as below the poverty threshold. Near poor persons have incomes of 100 percent to less than 200 percent of poverty threshold. Nonpoor persons have incomes of 200 percent or greater than the poverty threshold. See Appendix II, Poverty level. Missing family income data were imputed for 14 percent of children in 1993–96. See Appendix II, Family income for information on imputation. Poverty status was unknown for 17 percent of children in the sample in 1997, 21 percent in 1998, and 24 percent in 1999.

⁶Health insurance categories are mutually exclusive. Persons who reported both Medicaid and private coverage are classified as having Medicaid coverage. Medicaid includes other public assistance through 1996. Starting in 1997 Medicaid includes state-sponsored health plans and Child Health Insurance Program (CHIP). In 1993–96 health insurance status was unknown for 8–9 percent of children in the sample. In 1998–99 health insurance status was unknown for 1 percent of children in the sample. See Appendix II, Health insurance coverage.

⁷MSA is metropolitan statistical area.

NOTE: Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. National Health Interview Survey, access to care and health insurance supplements (1993–96). Starting in 1997 data are from the family core and sample child questionnaires.

Table 77 (page 1 of 3). Emergency department visits within the past 12 months among children under 18 years of age, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Under 18 years of age | | | Under 6 years of age | | | 6–17 years of age | | |
|-----------------------------------------------------------------------------|--------------------------|------|------|-------------------------|-------|-------|----------------------|-------|-------|
| | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 |
| Percent of children with 1 or more emergency department visits ¹ | | | | | | | | | |
| All children ² | 19.9 | 20.2 | 17.9 | 24.3 | 25.2 | 23.3 | 17.7 | 17.8 | 15.3 |
| Race ³ | | | | | | | | | |
| White | 19.4 | 19.8 | 17.2 | 22.6 | 24.6 | 22.0 | 17.8 | 17.4 | 14.9 |
| Black | 24.0 | 24.1 | 22.7 | 33.1 | 29.9 | 33.1 | 19.4 | 21.3 | 18.0 |
| American Indian or Alaska Native | *24.1 | 29.0 | 31.2 | *24.3 | *40.6 | *27.3 | *24.0 | *22.8 | *34.1 |
| Asian or Pacific Islander | 12.6 | 11.0 | 11.4 | 20.8 | 15.6 | *14.2 | 8.6 | *8.2 | *10.0 |
| Race and Hispanic origin | | | | | | | | | |
| White, non-Hispanic | 19.2 | 20.0 | 17.5 | 22.2 | 24.5 | 22.2 | 17.7 | 17.8 | 15.3 |
| Black, non-Hispanic | 23.6 | 24.1 | 22.8 | 32.7 | 29.9 | 33.2 | 19.2 | 21.4 | 18.1 |
| Hispanic ³ | 21.1 | 19.0 | 15.9 | 25.7 | 25.4 | 21.4 | 18.1 | 15.0 | 12.6 |
| Poverty status ⁴ | | | | | | | | | |
| Poor | 25.4 | 27.1 | 24.4 | 29.9 | 33.9 | 31.6 | 22.5 | 23.0 | 20.6 |
| Near poor | 22.6 | 22.9 | 22.2 | 28.8 | 27.5 | 30.4 | 19.4 | 20.5 | 17.8 |
| Nonpoor | 17.4 | 17.6 | 15.4 | 21.0 | 21.0 | 19.0 | 15.8 | 16.0 | 13.8 |
| Race and Hispanic origin and poverty status ⁴ | | | | | | | | | |
| White, non-Hispanic: | | | | | | | | | |
| Poor | 26.3 | 30.6 | 26.9 | 28.0 | 33.6 | 35.0 | 25.1 | 28.5 | 23.3 |
| Near poor | 23.0 | 22.4 | 24.4 | 26.5 | 27.9 | 32.9 | 21.2 | 19.7 | 20.0 |
| Nonpoor | 17.4 | 18.2 | 15.2 | 20.6 | 21.8 | 18.4 | 15.9 | 16.6 | 13.8 |
| Black, non-Hispanic: | | | | | | | | | |
| Poor | 29.8 | 29.8 | 29.7 | 40.9 | 38.3 | 42.6 | 22.8 | 25.5 | 23.4 |
| Near poor | 23.6 | 25.7 | 24.3 | 33.6 | 29.6 | 35.7 | 19.1 | 23.9 | 18.6 |
| Nonpoor | 17.8 | 18.8 | 18.3 | 23.8 | 21.3 | 25.7 | 15.5 | 17.7 | 15.3 |
| Hispanic: ³ | | | | | | | | | |
| Poor | 22.0 | 20.9 | 16.4 | 24.8 | 29.6 | 21.0 | 20.1 | 15.3 | 13.0 |
| Near poor | 20.8 | 21.1 | 15.2 | 28.9 | 25.4 | 21.7 | 15.6 | 18.2 | 11.6 |
| Nonpoor | 20.3 | 15.4 | 17.2 | 22.7 | 20.1 | 23.0 | 18.9 | 12.7 | 14.3 |
| Health insurance status ⁵ | | | | | | | | | |
| Insured | 19.8 | 20.2 | 18.1 | 24.4 | 25.2 | 23.1 | 17.5 | 17.7 | 15.7 |
| Private | 17.2 | 17.6 | 15.3 | 20.6 | 21.2 | 18.8 | 15.8 | 16.0 | 13.7 |
| Medicaid | 28.4 | 29.6 | 28.6 | 33.2 | 34.8 | 34.5 | 24.3 | 25.5 | 24.4 |
| Uninsured | 20.2 | 20.1 | 16.4 | 23.0 | 25.1 | 25.5 | 18.9 | 18.0 | 12.7 |
| Poverty status and health insurance status ⁴ | | | | | | | | | |
| Poor: | | | | | | | | | |
| Insured | 26.6 | 27.9 | 26.9 | 31.4 | 34.1 | 32.8 | 23.2 | 23.9 | 23.4 |
| Uninsured | 20.9 | 23.7 | 15.8 | 20.9 | 32.1 | 25.8 | 20.9 | 19.9 | 11.9 |
| Near poor: | | | | | | | | | |
| Insured | 22.7 | 24.0 | 23.3 | 29.2 | 29.4 | 31.2 | 19.2 | 21.0 | 18.7 |
| Uninsured | 22.2 | 19.5 | 18.3 | 27.3 | 20.9 | 26.6 | 20.1 | 18.8 | 14.8 |
| Nonpoor: | | | | | | | | | |
| Insured | 17.3 | 17.5 | 15.4 | 20.8 | 20.8 | 18.7 | 15.7 | 16.0 | 13.9 |
| Uninsured | 18.8 | 19.0 | 16.1 | 23.7 | 26.6 | 25.8 | 16.7 | 16.3 | 12.0 |
| Geographic region | | | | | | | | | |
| Northeast | 18.5 | 18.5 | 17.1 | 20.7 | 20.5 | 20.3 | 17.4 | 17.6 | 15.5 |
| Midwest | 19.5 | 20.1 | 18.4 | 26.0 | 25.4 | 24.1 | 16.4 | 17.5 | 15.8 |
| South | 21.8 | 22.9 | 19.2 | 25.6 | 28.8 | 25.7 | 19.9 | 20.1 | 16.1 |
| West | 18.5 | 17.6 | 15.9 | 23.5 | 23.4 | 21.4 | 15.9 | 14.7 | 13.1 |
| Location of residence | | | | | | | | | |
| Within MSA ⁶ | 19.7 | 19.6 | 16.7 | 23.9 | 24.0 | 22.0 | 17.4 | 17.3 | 14.0 |
| Outside MSA ⁶ | 20.8 | 22.7 | 22.4 | 26.2 | 29.8 | 29.1 | 18.6 | 19.4 | 19.7 |

See footnotes at end of table.

Table 77 (page 2 of 3). Emergency department visits within the past 12 months among children under 18 years of age, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Under 18 years of age | | | Under 6 years of age | | | 6–17 years of age | | |
|-----------------------------------------------------------------------------|--------------------------|-------|------|-------------------------|-------|-------|----------------------|------|------|
| | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 |
| Percent of children with 2 or more emergency department visits ¹ | | | | | | | | | |
| All children ² | 7.1 | 6.9 | 5.5 | 9.6 | 9.3 | 8.7 | 5.8 | 5.8 | 4.0 |
| Race ³ | | | | | | | | | |
| White | 6.6 | 6.3 | 4.7 | 8.4 | 8.2 | 7.3 | 5.7 | 5.4 | 3.5 |
| Black | 9.6 | 10.1 | 9.4 | 14.9 | 14.8 | 16.8 | 6.9 | 7.8 | 6.1 |
| American Indian or Alaska Native | * | *11.4 | * | * | * | * | * | * | * |
| Asian or Pacific Islander | *5.7 | *5.5 | * | *12.9 | * | * | * | * | * |
| Race and Hispanic origin | | | | | | | | | |
| White, non-Hispanic | 6.2 | 6.2 | 4.7 | 7.8 | 8.0 | 7.4 | 5.5 | 5.4 | 3.5 |
| Black, non-Hispanic | 9.3 | 10.0 | 9.4 | 14.6 | 14.7 | 16.9 | 6.8 | 7.8 | 6.0 |
| Hispanic ³ | 8.9 | 7.0 | 5.2 | 11.8 | 9.3 | 7.9 | 7.0 | 5.5 | 3.6 |
| Poverty status ⁴ | | | | | | | | | |
| Poor | 11.2 | 11.8 | 10.5 | 14.4 | 15.7 | 15.5 | 9.1 | 9.4 | 7.7 |
| Near poor | 8.6 | 9.0 | 7.6 | 12.7 | 10.5 | 12.4 | 6.4 | 8.1 | 5.0 |
| Nonpoor | 5.2 | 4.7 | 3.9 | 6.7 | 6.3 | 6.1 | 4.6 | 4.0 | 3.0 |
| Race and Hispanic origin and poverty status ⁴ | | | | | | | | | |
| White, non-Hispanic: | | | | | | | | | |
| Poor | 11.0 | 12.5 | 11.3 | 12.4 | *13.7 | 18.3 | 10.1 | 11.6 | *8.1 |
| Near poor | 8.4 | 8.7 | 7.7 | 11.8 | 10.0 | 12.9 | 6.6 | 8.0 | *5.0 |
| Nonpoor | 5.0 | 4.7 | 3.6 | 6.0 | 6.4 | 5.2 | 4.5 | 3.9 | 2.9 |
| Black, non-Hispanic: | | | | | | | | | |
| Poor | 12.9 | 14.0 | 14.7 | 19.6 | 21.7 | 22.9 | *8.7 | 10.2 | 10.6 |
| Near poor | 9.5 | 10.8 | 9.9 | *14.0 | *14.0 | *16.9 | *7.5 | 9.3 | * |
| Nonpoor | 5.1 | 5.2 | 6.4 | *8.1 | *7.2 | *12.6 | *4.0 | *4.4 | *3.9 |
| Hispanic: ³ | | | | | | | | | |
| Poor | 10.6 | 8.1 | 5.7 | 13.9 | 11.5 | *8.1 | 8.4 | *5.9 | * |
| Near poor | 8.1 | 7.3 | 6.0 | 12.2 | 8.3 | *9.9 | *5.4 | 6.7 | * |
| Nonpoor | 7.4 | 6.1 | 5.5 | 8.2 | *6.6 | *9.2 | 7.0 | 5.9 | *3.6 |
| Health insurance status ⁵ | | | | | | | | | |
| Insured | 7.0 | 6.9 | 5.6 | 9.6 | 9.3 | 8.6 | 5.7 | 5.7 | 4.1 |
| Private | 5.0 | 5.1 | 3.6 | 6.6 | 6.7 | 5.4 | 4.4 | 4.4 | 2.8 |
| Medicaid | 13.2 | 13.6 | 12.8 | 16.2 | 15.8 | 17.0 | 10.6 | 11.8 | 9.7 |
| Uninsured | 7.7 | 7.1 | 4.9 | 9.8 | 8.9 | 9.0 | 6.8 | 6.3 | *3.2 |
| Poverty status and health insurance status ⁴ | | | | | | | | | |
| Poor: | | | | | | | | | |
| Insured | 12.0 | 12.2 | 12.1 | 15.4 | 15.5 | 16.9 | 9.6 | 10.1 | 9.2 |
| Uninsured | 8.0 | 9.4 | *4.8 | *8.7 | *14.7 | * | *7.7 | *7.1 | * |
| Near poor: | | | | | | | | | |
| Insured | 8.6 | 9.3 | 8.3 | 12.7 | 11.7 | 13.4 | 6.4 | 8.0 | 5.4 |
| Uninsured | 8.3 | 7.7 | *5.1 | *12.2 | * | * | 6.8 | *8.4 | * |
| Nonpoor: | | | | | | | | | |
| Insured | 5.1 | 4.7 | 3.9 | 6.4 | 6.2 | 5.9 | 4.5 | 4.0 | 3.0 |
| Uninsured | 7.1 | *5.2 | *4.5 | *11.8 | * | * | *5.0 | * | * |

See footnotes at end of table.

Table 77 (page 3 of 3). Emergency department visits within the past 12 months among children under 18 years of age, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Under 18 years of age | | | Under 6 years of age | | | 6–17 years of age | | |
|------------------------------------|-----------------------------------------------------------------------------|------|------|----------------------|------|------|-------------------|------|------|
| | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 |
| Geographic region | Percent of children with 2 or more emergency department visits ¹ | | | | | | | | |
| Northeast | 6.2 | 5.8 | 4.9 | 7.6 | 6.6 | 6.5 | 5.4 | 5.4 | 4.0 |
| Midwest | 6.6 | 7.1 | 5.8 | 10.4 | 10.3 | 9.8 | 4.8 | 5.5 | 4.0 |
| South | 8.0 | 8.1 | 6.1 | 10.1 | 11.1 | 9.8 | 6.9 | 6.6 | 4.3 |
| West. | 7.1 | 5.9 | 4.7 | 10.0 | 7.6 | 7.6 | 5.6 | 5.1 | 3.3 |
| Location of residence | | | | | | | | | |
| Within MSA ⁶ | 7.2 | 6.6 | 5.0 | 9.6 | 8.9 | 8.0 | 5.9 | 5.4 | 3.4 |
| Outside MSA ⁶ | 6.8 | 8.2 | 7.4 | 9.7 | 11.0 | 11.3 | 5.6 | 6.9 | 5.8 |

* Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error of 20–30 percent. Data not shown have a relative standard error of greater than 30 percent.

¹See Appendix II, Emergency department visit.

²Includes all other races not shown separately, unknown poverty status, and unknown health insurance status.

³The race groups white, black, American Indian or Alaska Native, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

⁴Poverty status is based on family income, family size, number of children in the family, and for families with two or fewer adults the age of the adults in the family, using Bureau of the Census poverty thresholds. Poor persons are defined as below the poverty threshold. Near poor persons have incomes of 100 percent to less than 200 percent of poverty threshold. Nonpoor persons have incomes of 200 percent or greater than the poverty threshold. See Appendix II, Family income, Poverty level. Poverty status was unknown for 17 percent of children in the sample in 1997, 21 percent in 1998, and 24 percent in 1999.

⁵Health insurance categories are mutually exclusive. Persons who reported both Medicaid and private coverage are classified as having Medicaid coverage. Starting in 1997 Medicaid includes state-sponsored health plans and Child Health Insurance Program (CHIP). See Appendix II, Health insurance coverage.

⁶MSA is metropolitan statistical area.

NOTE: Some numbers for 1998 were revised and differ from the previous edition of *Health, United States*.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics. National Health Interview Survey, family core and sample child questionnaires.

Table 78 (page 1 of 2). No usual source of health care among adults 18–64 years of age, according to selected characteristics: United States, average annual 1993–94, 1995–96, and 1998–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| <i>Characteristic</i> | <i>1993–94</i> | <i>1995–96</i> | <i>1998–99¹</i> |
|----------------------------------------------------------------------|----------------|----------------|----------------------------|
| Percent of adults without a usual source of health care ² | | | |
| All adults 18–64 years of age ^{3,4} | 18.5 | 16.6 | 17.5 |
| Age | | | |
| 18–44 years | 21.7 | 19.6 | 21.2 |
| 18–24 years | 26.6 | 22.6 | 27.1 |
| 25–44 years | 20.3 | 18.8 | 19.3 |
| 45–64 years | 12.8 | 11.3 | 11.1 |
| 45–54 years | 14.1 | 12.2 | 12.2 |
| 55–64 years | 11.1 | 9.8 | 9.5 |
| Sex ⁴ | | | |
| Male | 23.3 | 21.0 | 23.5 |
| Female | 13.9 | 12.5 | 11.7 |
| Race ^{4,5} | | | |
| White | 18.2 | 16.3 | 16.8 |
| Black | 19.2 | 17.6 | 18.6 |
| American Indian or Alaska Native | 19.1 | 15.9 | 22.2 |
| Asian or Pacific Islander | 24.0 | 20.7 | 22.1 |
| Race and Hispanic origin ⁴ | | | |
| White, non-Hispanic | 17.0 | 15.0 | 15.4 |
| Black, non-Hispanic | 18.9 | 17.4 | 18.5 |
| Hispanic ⁵ | 28.8 | 26.2 | 28.7 |
| Mexican ⁵ | 30.5 | 28.1 | 33.0 |
| Poverty status ^{4,6} | | | |
| Poor | 28.2 | 24.9 | 27.5 |
| Near poor | 24.6 | 22.3 | 25.8 |
| Nonpoor | 14.8 | 13.5 | 13.9 |
| Race and Hispanic origin and poverty status ^{4,6} | | | |
| White, non-Hispanic: | | | |
| Poor | 27.1 | 22.8 | 24.5 |
| Near poor | 22.7 | 20.3 | 23.2 |
| Nonpoor | 14.4 | 13.0 | 13.2 |
| Black, non-Hispanic: | | | |
| Poor | 23.8 | 21.1 | 21.7 |
| Near poor | 21.6 | 21.2 | 23.4 |
| Nonpoor | 14.6 | 13.6 | 14.7 |
| Hispanic: ⁵ | | | |
| Poor | 38.0 | 32.6 | 38.3 |
| Near poor | 35.7 | 31.6 | 33.7 |
| Nonpoor | 18.3 | 18.2 | 19.6 |
| Health insurance status ^{4,7} | | | |
| Insured | 13.3 | 11.4 | 11.3 |
| Private | 13.1 | 11.3 | 11.5 |
| Medicaid | 14.8 | 12.0 | 9.5 |
| Uninsured | 41.5 | 40.9 | 47.1 |
| Poverty status and health insurance status ^{4,6} | | | |
| Poor: | | | |
| Insured | 16.8 | 13.6 | 13.9 |
| Uninsured | 45.7 | 42.1 | 48.6 |
| Near poor: | | | |
| Insured | 15.3 | 13.1 | 13.8 |
| Uninsured | 42.9 | 41.5 | 47.7 |
| Nonpoor: | | | |
| Insured | 12.3 | 10.8 | 10.8 |
| Uninsured | 37.0 | 39.4 | 44.7 |

See footnotes at end of table.

Table 78 (page 2 of 2). No usual source of health care among adults 18–64 years of age, according to selected characteristics: United States, average annual 1993–94, 1995–96, and 1998–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| <i>Characteristic</i> | <i>1993–94</i> | <i>1995–96</i> | <i>1998–99¹</i> |
|------------------------------------|----------------------------------------------------------------------|----------------|----------------------------|
| Geographic region ⁴ | Percent of adults without a usual source of health care ² | | |
| Northeast | 14.5 | 13.3 | 12.7 |
| Midwest | 15.8 | 14.5 | 15.9 |
| South | 21.6 | 18.4 | 20.4 |
| West | 20.5 | 19.5 | 19.2 |
| Location of residence ⁴ | | | |
| Within MSA ⁸ | 18.8 | 16.9 | 17.7 |
| Outside MSA ⁸ | 17.4 | 15.4 | 17.0 |

¹Data starting in 1997 are not strictly comparable with data for earlier years due to the 1997 questionnaire redesign. See Appendix I, National Health Interview Survey.

²Persons who report the emergency department as the place of their usual source of care are defined as having no usual source of care. See Appendix II, Usual source of care.

³Includes all other races not shown separately, unknown poverty status, and unknown health insurance status.

⁴Estimates are for persons 18–64 years of age and are age adjusted to the year 2000 standard using three age groups: 18–44 years, 45–54 years, and 55–64 years of age. See Appendix II, Age adjustment.

⁵The race groups white, black, American Indian or Alaska Native, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

⁶Prior to 1997 poverty status is based on family income and family size using Bureau of the Census poverty thresholds. Beginning in 1997 poverty status is based on family income, family size, number of children in the family, and for families with two or fewer adults the age of the adults in the family. Poor persons are defined as below the poverty threshold. Near poor persons have incomes of 100 percent to less than 200 percent of poverty threshold. Nonpoor persons have incomes of 200 percent or greater than the poverty threshold. See Appendix II, Family income, Poverty level. Missing family income data were imputed for 16 percent of adults in 1993–96. See Appendix II, Family income for information on imputation process. Poverty status was unknown for 22 percent of adults in the sample in 1997, 27 percent in 1998, and 29 percent in 1999.

⁷Health insurance categories are mutually exclusive. Persons who reported both Medicaid and private coverage are classified as having Medicaid coverage. Medicaid includes other public assistance through 1996. Starting in 1997 Medicaid includes state-sponsored health plans and Child Health Insurance Program (CHIP). In 1993–96 health insurance coverage was unknown for 8–9 percent of adults in the sample. In 1998–99 health insurance coverage was unknown for 1 percent of adults in the sample. See Appendix II, Health insurance coverage.

⁸MSA is metropolitan statistical area.

NOTE: Data for additional years are available (see Appendix III).

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey, access to care and health insurance supplements (1993–96). Starting in 1997 data are from the family core and sample adult questionnaires.

Table 79 (page 1 of 2). Emergency department visits within the past 12 months among adults 18 years of age and over, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | 1 or more emergency department visits | | | 2 or more emergency department visits | | |
|----------------------------------------------------------------|---------------------------------------------|------|------|---------------------------------------------|------|-------|
| | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 |
| Percent of adults with emergency department visit ¹ | | | | | | |
| All adults 18 years of age and over ^{2,3} | 19.6 | 19.7 | 17.2 | 6.7 | 6.7 | 5.2 |
| Age | | | | | | |
| 18–44 years | 20.7 | 20.4 | 17.7 | 6.8 | 7.0 | 5.6 |
| 18–24 years | 26.3 | 24.7 | 21.7 | 9.1 | 8.3 | 7.3 |
| 25–44 years | 19.0 | 19.1 | 16.5 | 6.2 | 6.6 | 5.0 |
| 45–64 years | 16.2 | 17.1 | 14.6 | 5.6 | 5.7 | 4.3 |
| 45–54 years | 15.7 | 17.0 | 14.3 | 5.5 | 6.0 | 4.3 |
| 55–64 years | 16.9 | 17.2 | 15.1 | 5.7 | 5.2 | 4.3 |
| 65 years and over | 22.0 | 21.9 | 19.9 | 8.1 | 7.3 | 5.6 |
| 65–74 years | 20.3 | 20.0 | 17.3 | 7.1 | 6.8 | 4.7 |
| 75 years and over | 24.3 | 24.3 | 23.1 | 9.3 | 8.0 | 6.7 |
| Sex ³ | | | | | | |
| Male | 19.1 | 19.5 | 16.1 | 5.9 | 6.1 | 4.3 |
| Female | 20.2 | 19.9 | 18.2 | 7.5 | 7.3 | 6.0 |
| Race ^{3,4} | | | | | | |
| White | 19.0 | 19.1 | 16.7 | 6.2 | 6.1 | 4.8 |
| Black | 25.9 | 25.3 | 22.3 | 11.1 | 10.7 | 8.8 |
| American Indian or Alaska Native | 24.8 | 28.6 | 27.2 | 13.1 | 12.4 | *10.3 |
| Asian or Pacific Islander | 11.6 | 14.4 | 10.0 | *2.9 | 5.8 | * |
| Race and Hispanic origin ³ | | | | | | |
| White, non-Hispanic | 19.1 | 19.3 | 17.0 | 6.2 | 6.1 | 4.9 |
| Black, non-Hispanic | 25.9 | 25.2 | 22.3 | 11.0 | 10.6 | 8.8 |
| Hispanic ⁴ | 19.2 | 18.6 | 15.3 | 7.4 | 6.6 | 4.5 |
| Mexican ⁴ | 17.8 | 16.3 | 14.4 | 6.4 | 5.7 | 4.1 |
| Poverty status ^{3,5} | | | | | | |
| Poor | 29.2 | 28.1 | 27.6 | 13.7 | 13.4 | 11.7 |
| Near poor | 24.9 | 24.4 | 21.7 | 10.0 | 10.1 | 8.0 |
| Nonpoor | 17.5 | 18.0 | 15.4 | 5.0 | 5.2 | 4.1 |
| Race and Hispanic origin and poverty status ^{3,5} | | | | | | |
| White, non-Hispanic: | | | | | | |
| Poor | 30.8 | 30.1 | 29.7 | 14.1 | 13.9 | 12.0 |
| Near poor | 25.5 | 24.7 | 22.2 | 9.8 | 10.3 | 7.8 |
| Nonpoor | 17.2 | 17.8 | 15.5 | 4.8 | 4.9 | 4.1 |
| Black, non-Hispanic: | | | | | | |
| Poor | 35.5 | 32.7 | 33.5 | 17.9 | 17.9 | 16.6 |
| Near poor | 30.8 | 29.7 | 27.9 | 12.9 | 13.5 | 13.0 |
| Nonpoor | 20.7 | 22.4 | 18.5 | 7.8 | 8.0 | 5.8 |
| Hispanic: ⁴ | | | | | | |
| Poor | 22.9 | 19.6 | 17.1 | 10.2 | 8.1 | 6.6 |
| Near poor | 19.2 | 20.4 | 15.9 | 8.4 | 6.9 | 5.0 |
| Nonpoor | 17.9 | 17.4 | 14.5 | 5.5 | 4.8 | 3.8 |
| Health insurance status ^{6,7} | | | | | | |
| 18–64 years of age: | | | | | | |
| Insured | 18.8 | 18.9 | 16.1 | 6.1 | 6.1 | 4.7 |
| Private | 16.9 | 17.2 | 14.5 | 4.7 | 4.8 | 3.6 |
| Medicaid | 36.9 | 38.3 | 35.0 | 19.5 | 20.7 | 17.2 |
| Uninsured | 20.0 | 20.3 | 18.3 | 7.5 | 8.0 | 7.0 |
| 65 years of age and over: | | | | | | |
| Private | 21.4 | 21.3 | 19.2 | 6.7 | 6.6 | 5.3 |
| Medicaid | 32.3 | 33.2 | 29.1 | 18.0 | 13.9 | 11.6 |
| Medicare only | 20.9 | 20.4 | 19.5 | 8.8 | 7.1 | 4.9 |

See footnotes at end of table.

Table 79 (page 2 of 2). Emergency department visits within the past 12 months among adults 18 years of age and over, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | 1 or more emergency department visits | | | 2 or more emergency department visits | | |
|----------------------------------------------------------------|---------------------------------------------|------|------|---------------------------------------------|------|------|
| | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 |
| Poverty status and health insurance status ^{5,6} | | | | | | |
| Percent of adults with emergency department visit ¹ | | | | | | |
| 18–64 years of age: | | | | | | |
| Poor: | | | | | | |
| Insured | 32.1 | 29.2 | 29.8 | 15.9 | 14.8 | 13.3 |
| Uninsured | 24.4 | 25.0 | 22.7 | 10.0 | 11.4 | 10.3 |
| Near poor: | | | | | | |
| Insured | 26.6 | 26.8 | 23.1 | 10.3 | 11.2 | 8.7 |
| Uninsured | 21.3 | 18.9 | 18.6 | 9.1 | 7.9 | 7.5 |
| Nonpoor: | | | | | | |
| Insured | 16.6 | 17.1 | 14.7 | 4.5 | 4.6 | 3.7 |
| Uninsured | 18.7 | 19.8 | 16.3 | 5.5 | 6.9 | 6.5 |
| Geographic region ³ | | | | | | |
| Northeast | 19.5 | 19.6 | 16.9 | 6.9 | 6.2 | 5.1 |
| Midwest | 19.3 | 18.9 | 17.2 | 6.2 | 6.3 | 5.1 |
| South | 20.9 | 21.2 | 17.7 | 7.3 | 7.6 | 5.7 |
| West | 17.7 | 18.1 | 16.4 | 6.0 | 5.9 | 4.5 |
| Location of residence ³ | | | | | | |
| Within MSA ⁸ | 19.1 | 19.0 | 16.6 | 6.4 | 6.4 | 4.9 |
| Outside MSA ⁸ | 21.5 | 22.3 | 19.5 | 7.8 | 7.7 | 6.4 |

* Data preceded by an asterisk have a relative standard error of 20–30 percent. Data not shown have a relative standard error of greater than 30 percent.

¹See Appendix II, Emergency department visit.

²Includes all other races not shown separately, unknown poverty status, and unknown health insurance status.

³Estimates are for persons 18 years of age and over and are age adjusted to the year 2000 standard using five age groups: 18–44 years, 45–54 years, 55–64 years, 65–74 years, and 75 years and over. See Appendix II, Age adjustment.

⁴The race groups white, black, American Indian or Alaska Native, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

⁵Poverty status is based on family income, family size, number of children in the family, and for families with two or fewer adults the age of the adults in the family, using Bureau of the Census poverty thresholds. Poor persons are defined as below the poverty threshold. Near poor persons have incomes of 100 percent to less than 200 percent of poverty threshold. Nonpoor persons have incomes of 200 percent or greater than the poverty threshold. See Appendix II, Family income, Poverty level. Poverty status was unknown for 22 percent of adults in the sample in 1997, 27 percent in 1998, and 29 percent in 1999.

⁶Estimates for persons 18–64 years of age are age adjusted to the year 2000 standard using three age groups: 18–44 years, 45–54 years, and 55–64 years of age.

Estimates for persons 65 years of age and over are age adjusted to the year 2000 standard using two age groups: 65–74 years and 75 years and over. See Appendix II, Age adjustment.

⁷Health insurance categories are mutually exclusive. Persons who reported both Medicaid and private coverage are classified as having Medicaid coverage. Starting in 1997 Medicaid includes state-sponsored health plans and Child Health Insurance Program (CHIP). See Appendix II, Health insurance coverage.

⁸MSA is metropolitan statistical area.

NOTE: Some numbers for 1998 were revised and differ from the previous edition of *Health, United States*.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics. National Health Interview Survey, family core and sample adult questionnaires.

Table 90 (page 1 of 2). Discharges, days of care, and average length of stay in short-stay hospitals, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Discharges ¹ | | | Days of care ¹ | | | Average length of stay ¹ | | |
|------------------------------------------------------------|-----------------------------|-------|-------|---------------------------|---------|---------|-------------------------------------|------|------|
| | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 |
| | Number per 1,000 population | | | | | | Number of days | | |
| Total ^{2,3} | 124.3 | 123.8 | 119.7 | 601.2 | 611.0 | 555.1 | 4.8 | 4.9 | 4.6 |
| Age | | | | | | | | | |
| Under 18 years | 90.8 | 81.9 | 76.3 | 319.0 | 315.6 | 302.6 | 3.5 | 3.9 | 4.0 |
| Under 6 years | 203.5 | 192.1 | 183.2 | 632.6 | 645.1 | 664.8 | 3.1 | 3.4 | 3.6 |
| 6–17 years | 34.0 | 27.3 | 24.3 | 163.1 | 152.6 | *126.5 | 4.8 | 5.6 | *5.2 |
| 18–44 years | 96.8 | 93.1 | 95.8 | 358.8 | 380.5 | 352.8 | 3.7 | 4.1 | 3.7 |
| 45–64 years | 124.9 | 134.0 | 125.6 | 631.1 | 678.6 | 592.5 | 5.1 | 5.1 | 4.7 |
| 45–54 years | 99.2 | 105.5 | 110.1 | 527.5 | 530.8 | 473.9 | 5.3 | 5.0 | 4.3 |
| 55–64 years | 164.8 | 177.9 | 149.6 | 792.4 | 906.1 | 775.5 | 4.8 | 5.1 | 5.2 |
| 65 years and over | 274.4 | 283.4 | 269.7 | 1,852.5 | 1,789.7 | 1,620.5 | 6.8 | 6.3 | 6.0 |
| 65–74 years | 249.1 | 244.3 | 229.8 | 1,595.2 | 1,496.6 | 1,386.4 | 6.4 | 6.1 | 6.0 |
| 75 years and over | 307.3 | 333.0 | 318.5 | 2,188.4 | 2,160.8 | 1,907.6 | 7.1 | 6.5 | 6.0 |
| Under 65 years of age | | | | | | | | | |
| All persons under 65 years of age ^{2,4} | 102.2 | 100.2 | 97.6 | 416.4 | 437.0 | 398.9 | 4.1 | 4.4 | 4.1 |
| Sex ⁴ | | | | | | | | | |
| Male | 79.1 | 80.6 | 77.9 | 374.9 | 422.7 | 374.0 | 4.7 | 5.2 | 4.8 |
| Female | 124.7 | 119.2 | 116.7 | 456.6 | 450.4 | 422.8 | 3.7 | 3.8 | 3.6 |
| Race ^{4,5} | | | | | | | | | |
| White | 100.8 | 98.6 | 94.9 | 385.8 | 417.4 | 369.5 | 3.8 | 4.2 | 3.9 |
| Black | 126.3 | 117.3 | 123.1 | 688.6 | 608.6 | 643.7 | 5.5 | 5.2 | 5.2 |
| American Indian or Alaska Native | 111.9 | 186.4 | 140.7 | *494.3 | * | *652.0 | *4.4 | * | *4.6 |
| Asian or Pacific Islander | 61.7 | 75.4 | 77.2 | *268.6 | 313.5 | 248.1 | *4.4 | 4.2 | 3.2 |
| Race and Hispanic origin ⁴ | | | | | | | | | |
| White, non-Hispanic | 99.6 | 97.8 | 95.7 | 382.7 | 408.7 | 368.8 | 3.8 | 4.2 | 3.9 |
| Black, non-Hispanic | 125.7 | 116.6 | 122.9 | 692.6 | 609.3 | 631.4 | 5.5 | 5.2 | 5.1 |
| Hispanic ⁵ | 109.9 | 103.5 | 90.1 | 416.7 | 468.5 | 389.8 | 3.8 | 4.5 | 4.3 |
| Poverty status ^{4,6} | | | | | | | | | |
| Poor | 196.8 | 174.7 | 174.0 | 971.0 | 968.0 | 992.9 | 4.9 | 5.5 | 5.7 |
| Near poor | 125.5 | 125.5 | 150.3 | 553.7 | 649.9 | 671.4 | 4.4 | 5.2 | 4.5 |
| Nonpoor | 85.6 | 87.4 | 82.1 | 312.1 | 342.0 | 291.9 | 3.6 | 3.9 | 3.6 |
| Race and Hispanic origin and poverty status ^{4,6} | | | | | | | | | |
| White, non-Hispanic: | | | | | | | | | |
| Poor | 222.2 | 181.7 | 182.8 | 1,053.4 | 1,004.8 | 1,048.9 | 4.7 | 5.5 | 5.7 |
| Near poor | 132.8 | 127.6 | 166.4 | 539.1 | 626.7 | 681.4 | 4.1 | 4.9 | 4.1 |
| Nonpoor | 85.7 | 88.5 | 81.9 | 306.8 | 340.2 | 289.9 | 3.6 | 3.8 | 3.5 |
| Black, non-Hispanic: | | | | | | | | | |
| Poor | 195.9 | 183.4 | 222.2 | *1,260.0 | 964.9 | 1,458.8 | *6.4 | 5.3 | 6.6 |
| Near poor | 142.0 | 161.0 | 156.4 | 819.2 | 969.2 | *922.7 | 5.8 | 6.0 | *5.9 |
| Nonpoor | 92.3 | 79.3 | 87.8 | 389.0 | 407.8 | 341.3 | 4.2 | 5.1 | 3.9 |
| Hispanic ⁵ : | | | | | | | | | |
| Poor | 163.9 | 158.6 | 122.3 | 625.1 | * | 555.2 | 3.8 | * | 4.5 |
| Near poor | 93.9 | 85.9 | 97.0 | 421.4 | 342.9 | *434.9 | 4.5 | 4.0 | *4.5 |
| Nonpoor | 95.4 | 81.6 | 79.2 | 297.9 | 287.7 | 295.4 | 3.1 | 3.5 | 3.7 |
| Health insurance status ^{4,7} | | | | | | | | | |
| Insured | 108.1 | 105.9 | 101.6 | 442.5 | 465.6 | 416.8 | 4.1 | 4.4 | 4.1 |
| Private | 84.3 | 83.2 | 78.9 | 302.7 | 314.5 | 279.3 | 3.6 | 3.8 | 3.5 |
| Medicaid | 310.3 | 338.5 | 335.8 | 1,554.8 | 1,985.7 | 1,687.1 | 5.0 | 5.9 | 5.0 |
| Uninsured | 75.3 | 74.6 | 75.7 | 296.3 | 305.7 | 304.2 | 3.9 | 4.1 | 4.0 |
| Poverty status and health insurance status ^{4,6} | | | | | | | | | |
| Poor: | | | | | | | | | |
| Insured | 243.9 | 219.1 | 217.1 | 1,272.5 | 1,296.8 | 1,294.5 | 5.2 | 5.9 | 6.0 |
| Uninsured | 110.0 | 98.7 | 101.5 | 459.4 | 446.5 | 476.9 | 4.2 | 4.5 | 4.7 |
| Near poor: | | | | | | | | | |
| Insured | 149.2 | 150.8 | 184.3 | 663.8 | 813.2 | 837.5 | 4.4 | 5.4 | 4.5 |
| Uninsured | 73.4 | 68.7 | 75.2 | 302.1 | 266.3 | 295.5 | 4.1 | 3.9 | 3.9 |
| Nonpoor: | | | | | | | | | |
| Insured | 88.1 | 89.7 | 84.1 | 316.0 | 347.7 | 299.7 | 3.6 | 3.9 | 3.6 |
| Uninsured | *59.8 | 59.5 | 58.8 | *253.5 | *239.6 | 197.6 | *4.2 | *4.0 | 3.4 |

See footnotes at end of table.

Table 90 (page 2 of 2). Discharges, days of care, and average length of stay in short-stay hospitals, according to selected characteristics: United States, 1997–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Discharges ¹ | | | Days of care ¹ | | | Average length of stay ¹ | | |
|---------------------------------------------------------------|-----------------------------|-------|-------|---------------------------|---------|---------|-------------------------------------|------|------|
| | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 | 1997 | 1998 | 1999 |
| Geographic region ⁴ | Number per 1,000 population | | | | | | Number of days | | |
| Northeast | 96.0 | 94.9 | 85.6 | 455.4 | 502.5 | 381.6 | 4.7 | 5.3 | 4.5 |
| Midwest | 108.7 | 103.4 | 99.6 | 384.4 | 441.9 | 359.9 | 3.5 | 4.3 | 3.6 |
| South | 111.8 | 107.3 | 112.8 | 466.1 | 456.7 | 463.9 | 4.2 | 4.3 | 4.1 |
| West | 82.9 | 88.3 | 80.0 | 327.2 | 330.0 | 348.3 | 3.9 | 3.7 | 4.4 |
| Location of residence ⁴ | | | | | | | | | |
| Within MSA ⁸ | 99.3 | 97.9 | 94.0 | 411.8 | 431.8 | 383.0 | 4.1 | 4.4 | 4.1 |
| Outside MSA ⁸ | 113.2 | 109.2 | 111.9 | 435.9 | 458.7 | 459.4 | 3.8 | 4.2 | 4.1 |
| 65 years of age and over | | | | | | | | | |
| All persons 65 years of age and over ^{2,9} | 276.9 | 286.6 | 272.1 | 1,878.4 | 1,813.8 | 1,635.3 | 6.8 | 6.3 | 6.0 |
| Sex ⁹ | | | | | | | | | |
| Male | 291.6 | 283.5 | 280.2 | 2,077.4 | 1,855.7 | 1,551.7 | 7.1 | 6.5 | 5.5 |
| Female | 265.2 | 288.1 | 264.0 | 1,727.4 | 1,793.4 | 1,676.5 | 6.5 | 6.2 | 6.4 |
| Race and Hispanic origin ⁹ | | | | | | | | | |
| White, non-Hispanic | 274.8 | 268.6 | 271.8 | 1,808.2 | 1,752.0 | 1,586.3 | 6.6 | 6.5 | 5.8 |
| Black, non-Hispanic | 290.8 | 372.7 | 300.1 | 2,423.5 | 2,476.5 | 2,050.8 | 8.3 | 6.6 | 6.8 |
| Hispanic ⁵ | 312.7 | 295.1 | 289.8 | 2,512.1 | 1,907.1 | 1,882.8 | 8.0 | 6.5 | 6.5 |
| Poverty status ^{6,9} | | | | | | | | | |
| Poor | 357.4 | 337.4 | 394.7 | 2,690.9 | 2,034.3 | 2,169.0 | 7.5 | 6.0 | 5.5 |
| Near poor | 329.6 | 330.6 | 328.5 | 2,498.3 | 2,378.0 | 1,954.8 | 7.6 | 7.2 | 6.0 |
| Nonpoor | 256.6 | 285.4 | 247.3 | 1,680.3 | 1,648.9 | 1,510.4 | 6.5 | 5.8 | 6.1 |
| Health insurance status ^{7,9} | | | | | | | | | |
| Medicare and private ¹⁰ | 266.3 | 267.3 | 268.1 | 1,719.8 | 1,663.0 | 1,573.7 | 6.5 | 6.2 | 5.9 |
| Medicare and Medicaid ¹⁰ | 516.2 | 482.7 | 450.3 | 3,697.9 | 3,081.3 | 3,210.2 | 7.2 | 6.4 | 7.1 |
| Medicare only | 231.1 | 285.7 | 250.2 | 1,623.9 | 1,890.9 | 1,453.2 | 7.0 | 6.6 | 5.8 |
| Geographic region ⁹ | | | | | | | | | |
| Northeast | 265.0 | 252.7 | 288.0 | 1,828.5 | 1,814.6 | 1,873.4 | 6.9 | 7.2 | 6.5 |
| Midwest | 285.2 | 276.6 | 244.0 | 1,971.1 | 1,619.0 | 1,475.3 | 6.9 | 5.9 | 6.0 |
| South | 298.1 | 312.3 | 298.1 | 2,140.2 | 2,107.7 | 1,783.8 | 7.2 | 6.7 | 6.0 |
| West | 237.2 | 285.7 | 238.5 | 1,299.2 | 1,493.6 | 1,284.6 | 5.5 | 5.2 | 5.4 |
| Location of residence ⁹ | | | | | | | | | |
| Within MSA ⁸ | 271.3 | 258.6 | 265.3 | 1,875.9 | 1,736.8 | 1,653.3 | 6.9 | 6.7 | 6.2 |
| Outside MSA ⁸ | 295.1 | 378.8 | 295.3 | 1,893.6 | 2,068.9 | 1,574.8 | 6.4 | 5.5 | 5.3 |

* Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error of 20–30 percent. Data not shown have a relative standard error of greater than 30 percent.

¹See Appendix II, Discharge, Days of care, Average length of stay.

²Includes all other races not shown separately, unknown poverty status, and unknown health insurance status.

³Estimates for all persons are age adjusted to the year 2000 standard using six age groups: Under 18 years, 18–44 years, 45–54 years, 55–64 years, 65–74 years, and 75 years of age and over. See Appendix II, Age adjustment.

⁴Estimates are for persons under 65 years of age and are age adjusted to the year 2000 standard using four age groups: Under 18 years, 18–44 years, 45–54 years, and 55–64 years of age. See Appendix II, Age adjustment.

⁵The race groups white, black, American Indian or Alaska Native, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

⁶Poverty status is based on family income, family size, number of children in the family, and for families with two or fewer adults the age of the adults in the family, using Bureau of the Census poverty thresholds. Poor persons are defined as below the poverty threshold. Near poor persons have incomes of 100 percent to less than 200 percent of poverty threshold. Nonpoor persons have incomes of 200 percent or greater than the poverty threshold. See Appendix II, Poverty level. Poverty status was missing for 20 percent of persons in the sample in 1997, 25 percent in 1998, and 28 percent in 1999.

⁷Health insurance categories are mutually exclusive. Persons who reported both Medicaid and private coverage are classified as having Medicaid coverage. Starting in 1997 Medicaid includes state-sponsored health plans and Child Health Insurance Program (CHIP). See Appendix II, Health insurance coverage.

⁸MSA is metropolitan statistical area.

⁹Estimates are for persons 65 years of age and over and are age adjusted to the year 2000 standard using two age groups: 65–74 years and 75 years and over. See Appendix II, Age adjustment.

¹⁰Includes some persons who do not have Medicare coverage.

NOTES: Calculations of average length of stay were revised and differ from the previous edition of *Health, United States*. Hospital utilization data starting in 1997 are not comparable with data for earlier years due to the 1997 redesign. See Appendix I, National Health Interview Survey. Estimates of hospital utilization presented in this table are for all discharges. In years prior to 1997 estimates of hospital utilization from the National Health Interview Survey (NHIS) in *Health, United States* excluded hospitalizations for newborns and delivery. Estimates of hospital utilization from the NHIS and the National Hospital Discharge Survey (NHDS) may differ because NHIS data are based on household interviews of the civilian noninstitutionalized population, whereas NHDS data are based on hospital discharge records of all persons (NHDS tables presented in *Health, United States* exclude estimates for newborn infants). See Appendix I, National Hospital Discharge Survey. NHDS includes records for persons discharged alive or deceased and institutionalized persons; differences in the two surveys are particularly evident for children and the elderly.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics. National Health Interview Survey, family core questionnaire.

Table 128 (page 1 of 3). Private health insurance coverage among persons under 65 years of age, according to selected characteristics: United States, selected years 1984–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | 1984 | 1989 | 1994 ¹ | 1995 | 1996 | 1997 ¹ | 1998 | 1999 |
|-----------------------------------------------|-------|-------|-------------------|-------|-------|-------------------|-------|-------|
| Number in millions | | | | | | | | |
| Total ² | 157.5 | 162.7 | 159.8 | 164.2 | 165.9 | 165.8 | 170.8 | 174.3 |
| Percent of population | | | | | | | | |
| Total, age adjusted ^{2,3} | 77.1 | 76.2 | 70.3 | 71.6 | 71.6 | 70.9 | 72.3 | 72.9 |
| Total, crude ² | 76.8 | 75.9 | 69.9 | 71.3 | 71.4 | 70.7 | 72.1 | 72.8 |
| Age | | | | | | | | |
| Under 18 years | 72.6 | 71.8 | 63.2 | 65.2 | 66.4 | 66.1 | 68.4 | 68.8 |
| Under 6 years | 68.1 | 67.9 | 57.6 | 59.5 | 61.1 | 61.3 | 64.7 | 64.7 |
| 6–17 years | 74.9 | 74.0 | 66.3 | 68.3 | 69.1 | 68.5 | 70.2 | 70.9 |
| 18–44 years | 76.5 | 75.5 | 69.4 | 70.9 | 70.6 | 69.4 | 71.1 | 72.0 |
| 18–24 years | 67.4 | 64.5 | 57.9 | 60.8 | 60.4 | 59.3 | 61.5 | 63.2 |
| 25–34 years | 77.4 | 75.9 | 69.0 | 70.1 | 69.5 | 68.1 | 70.6 | 71.2 |
| 35–44 years | 83.9 | 82.7 | 76.9 | 77.7 | 77.5 | 76.4 | 76.9 | 77.9 |
| 45–64 years | 83.3 | 82.5 | 80.2 | 80.1 | 79.5 | 79.0 | 79.0 | 79.3 |
| 45–54 years | 83.3 | 83.4 | 81.2 | 80.9 | 80.4 | 80.4 | 80.0 | 80.4 |
| 55–64 years | 83.3 | 81.6 | 78.7 | 79.0 | 78.1 | 76.9 | 77.3 | 77.7 |
| Sex ³ | | | | | | | | |
| Male | 77.7 | 76.5 | 70.9 | 72.1 | 72.0 | 71.2 | 72.5 | 73.0 |
| Female | 76.5 | 75.9 | 69.8 | 71.1 | 71.3 | 70.6 | 72.1 | 72.8 |
| Race ^{3,4} | | | | | | | | |
| White | 80.1 | 79.3 | 73.8 | 74.7 | 74.6 | 74.3 | 75.9 | 76.7 |
| Black | 59.2 | 58.7 | 52.2 | 54.9 | 56.2 | 56.1 | 55.9 | 58.2 |
| Asian or Pacific Islander | 70.9 | 71.6 | 67.5 | 68.4 | 68.3 | 68.2 | 72.2 | 72.3 |
| Hispanic origin and race ³ | | | | | | | | |
| All Hispanic ⁴ | 57.1 | 53.2 | 49.0 | 48.0 | 48.4 | 47.9 | 49.9 | 50.3 |
| Mexican | 54.9 | 48.5 | 46.1 | 44.3 | 44.4 | 43.9 | 45.6 | 48.0 |
| Puerto Rican | 51.0 | 46.8 | 48.8 | 48.9 | 52.5 | 48.2 | 52.7 | 51.4 |
| Cuban | 72.1 | 70.0 | 63.5 | 63.4 | 65.7 | 70.7 | 71.7 | 71.4 |
| Other Hispanic | 62.0 | 62.4 | 52.8 | 52.9 | 53.4 | 51.2 | 52.8 | 53.4 |
| White, non-Hispanic | 82.4 | 82.5 | 77.4 | 78.6 | 78.6 | 78.0 | 79.6 | 80.2 |
| Black, non-Hispanic | 59.4 | 58.8 | 52.6 | 55.3 | 56.7 | 56.3 | 56.1 | 58.3 |
| Age and percent of poverty level ⁵ | | | | | | | | |
| All ages: ³ | | | | | | | | |
| Below 100 percent | 33.0 | 27.5 | 22.6 | 23.0 | 20.7 | 23.6 | 24.1 | 26.1 |
| 100–149 percent | 61.8 | 54.2 | 46.0 | 47.9 | 46.8 | 42.0 | 43.3 | 40.1 |
| 150–199 percent | 77.2 | 70.6 | 64.1 | 65.2 | 67.1 | 63.6 | 61.4 | 59.4 |
| 200 percent or more | 91.6 | 91.0 | 88.0 | 88.4 | 89.3 | 87.6 | 88.3 | 88.7 |
| Under 18 years: | | | | | | | | |
| Below 100 percent | 28.7 | 22.3 | 15.2 | 16.9 | 16.1 | 17.5 | 18.9 | 19.5 |
| 100–149 percent | 66.2 | 59.6 | 47.3 | 48.5 | 49.5 | 42.5 | 45.8 | 40.4 |
| 150–199 percent | 80.9 | 75.9 | 68.0 | 67.4 | 73.0 | 66.8 | 66.5 | 61.6 |
| 200 percent or more | 92.3 | 92.7 | 89.0 | 89.5 | 90.7 | 88.9 | 89.9 | 90.4 |
| Geographic region ³ | | | | | | | | |
| Northeast | 80.7 | 82.1 | 75.0 | 75.5 | 75.5 | 74.3 | 76.4 | 77.1 |
| Midwest | 80.9 | 81.7 | 77.2 | 77.5 | 78.8 | 77.3 | 79.1 | 80.2 |
| South | 74.5 | 71.7 | 65.7 | 67.1 | 66.7 | 67.5 | 67.8 | 68.0 |
| West | 72.3 | 71.8 | 65.7 | 68.1 | 67.7 | 65.8 | 67.8 | 68.9 |
| Location of residence ³ | | | | | | | | |
| Within MSA ⁶ | 77.8 | 76.8 | 70.9 | 72.5 | 73.0 | 71.5 | 73.2 | 74.3 |
| Outside MSA ⁶ | 75.5 | 74.0 | 68.4 | 68.1 | 66.4 | 68.5 | 68.9 | 67.8 |

See footnotes at end of table.

Table 128 (page 2 of 3). Private health insurance coverage among persons under 65 years of age, according to selected characteristics: United States, selected years 1984–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Private insurance obtained through workplace ⁷ | | | | | | | |
|-----------------------------------------------|-----------------------------------------------------------|-------|-------------------|-------|-------|-------------------|-------|-------|
| | 1984 | 1989 | 1994 ¹ | 1995 | 1996 | 1997 ¹ | 1998 | 1999 |
| Number in millions | | | | | | | | |
| Total ² | 141.8 | 146.3 | 145.8 | 150.7 | 151.4 | 152.5 | 156.3 | 159.8 |
| Percent of population | | | | | | | | |
| Total, age adjusted ^{2,3} | 69.2 | 68.4 | 64.1 | 65.6 | 65.3 | 65.1 | 66.1 | 66.9 |
| Total, crude ² | 69.1 | 68.3 | 63.8 | 65.4 | 65.1 | 65.0 | 66.0 | 66.8 |
| Age | | | | | | | | |
| Under 18 years | 66.5 | 65.8 | 58.5 | 60.4 | 61.1 | 61.4 | 62.8 | 63.5 |
| Under 6 years | 62.1 | 62.3 | 53.3 | 55.1 | 56.5 | 57.3 | 59.7 | 59.9 |
| 6–17 years | 68.7 | 67.7 | 61.3 | 63.3 | 63.4 | 63.4 | 64.4 | 65.3 |
| 18–44 years | 69.6 | 68.4 | 63.5 | 65.3 | 64.7 | 64.4 | 65.5 | 66.7 |
| 18–24 years | 58.7 | 55.3 | 50.4 | 53.5 | 52.3 | 53.8 | 55.0 | 57.2 |
| 25–34 years | 71.2 | 69.5 | 63.7 | 65.0 | 64.4 | 63.6 | 65.9 | 66.4 |
| 35–44 years | 77.4 | 76.2 | 71.4 | 72.7 | 72.0 | 71.2 | 71.1 | 72.4 |
| 45–64 years | 71.8 | 71.6 | 71.7 | 72.2 | 71.4 | 70.8 | 71.1 | 71.1 |
| 45–54 years | 74.6 | 74.4 | 74.4 | 74.7 | 74.0 | 73.6 | 73.4 | 73.4 |
| 55–64 years | 69.0 | 68.3 | 67.8 | 68.4 | 67.5 | 66.6 | 67.6 | 67.5 |
| Sex ³ | | | | | | | | |
| Male | 70.1 | 68.9 | 64.7 | 66.3 | 65.8 | 65.4 | 66.2 | 66.8 |
| Female | 68.4 | 67.9 | 63.6 | 65.0 | 64.9 | 64.9 | 66.0 | 66.9 |
| Race ^{3,4} | | | | | | | | |
| White | 72.0 | 71.2 | 67.2 | 68.5 | 67.9 | 68.0 | 69.2 | 70.1 |
| Black | 53.3 | 53.6 | 49.5 | 51.1 | 53.0 | 53.7 | 53.1 | 55.3 |
| Asian or Pacific Islander | 64.4 | 60.2 | 57.5 | 59.8 | 59.4 | 60.5 | 63.3 | 63.6 |
| Hispanic origin and race ³ | | | | | | | | |
| All Hispanic ⁴ | 52.9 | 48.6 | 44.8 | 44.6 | 44.6 | 44.5 | 46.3 | 46.8 |
| Mexican | 51.7 | 45.6 | 44.1 | 42.3 | 41.5 | 41.8 | 43.2 | 45.0 |
| Puerto Rican | 48.3 | 43.4 | 45.6 | 45.6 | 49.9 | 45.5 | 49.9 | 48.0 |
| Cuban | 57.6 | 56.3 | 45.6 | 53.8 | 54.8 | 55.9 | 58.2 | 61.6 |
| Other Hispanic | 57.7 | 55.7 | 46.8 | 47.7 | 48.4 | 47.6 | 48.8 | 49.5 |
| White, non-Hispanic | 74.0 | 74.0 | 70.5 | 72.1 | 71.5 | 71.4 | 72.5 | 73.2 |
| Black, non-Hispanic | 53.4 | 53.7 | 49.8 | 51.5 | 53.3 | 53.9 | 53.3 | 55.4 |
| Age and percent of poverty level ⁵ | | | | | | | | |
| All ages: ³ | | | | | | | | |
| Below 100 percent | 23.8 | 19.7 | 16.9 | 17.6 | 15.8 | 19.6 | 19.5 | 21.8 |
| 100–149 percent | 51.1 | 45.0 | 39.7 | 41.7 | 40.4 | 36.8 | 38.3 | 35.5 |
| 150–199 percent | 68.6 | 61.9 | 57.3 | 58.6 | 60.0 | 58.1 | 54.7 | 53.0 |
| 200 percent or more | 85.0 | 83.9 | 81.7 | 82.4 | 83.0 | 82.0 | 82.2 | 83.1 |
| Under 18 years: | | | | | | | | |
| Below 100 percent | 23.2 | 17.5 | 12.3 | 13.6 | 13.4 | 15.4 | 16.3 | 16.5 |
| 100–149 percent | 58.3 | 52.5 | 42.7 | 43.6 | 43.7 | 38.4 | 41.6 | 37.0 |
| 150–199 percent | 75.8 | 70.1 | 62.5 | 61.8 | 67.4 | 63.1 | 60.9 | 56.3 |
| 200 percent or more | 86.9 | 86.7 | 83.5 | 84.4 | 84.6 | 83.7 | 83.6 | 85.0 |

See footnotes at end of table.

Table 128 (page 3 of 3). Private health insurance coverage among persons under 65 years of age, according to selected characteristics: United States, selected years 1984–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Private insurance obtained through workplace ⁷ | | | | | | | |
|------------------------------------|-----------------------------------------------------------|------|-------------------|-----------------------|------|-------------------|------|------|
| | 1984 | 1989 | 1994 ¹ | 1995 | 1996 | 1997 ¹ | 1998 | 1999 |
| Geographic region ³ | | | | Percent of population | | | | |
| Northeast | 74.1 | 75.1 | 69.7 | 69.9 | 69.2 | 69.7 | 71.6 | 72.0 |
| Midwest | 72.1 | 73.4 | 70.9 | 71.4 | 72.6 | 71.4 | 72.2 | 74.2 |
| South | 66.2 | 63.8 | 59.7 | 62.0 | 61.0 | 61.6 | 62.3 | 62.8 |
| West | 64.9 | 64.2 | 58.6 | 60.8 | 60.1 | 59.4 | 60.3 | 60.5 |
| Location of residence ³ | | | | | | | | |
| Within MSA ⁶ | 71.0 | 69.8 | 65.1 | 66.9 | 67.0 | 66.0 | 67.2 | 68.4 |
| Outside MSA ⁶ | 65.3 | 63.5 | 60.6 | 60.8 | 59.0 | 61.7 | 61.8 | 60.7 |

¹The questionnaire changed compared with previous years. See Appendix II, Health insurance coverage.

²Includes all other races not shown separately and unknown poverty level.

³Estimates are age adjusted to the year 2000 standard using three age groups: under 18 years, 18–44 years, and 45–64 years. See Appendix II, Age adjustment.

⁴The race groups white, black, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

Race groups such as American Indian or Alaska Native are not shown when sample sizes are too small to obtain reliable estimates.

⁵Prior to 1997 percent of poverty level is based on family income and family size using Bureau of the Census poverty thresholds. Beginning in 1997 percent of poverty level is based on family income, family size, number of children in the family, and, for families with two or fewer adults, the age of adults in the family. See Appendix II, Poverty level. Missing family income data were imputed for 17 percent of the sample under 65 years of age in 1994, 15 percent in 1995, and 16 percent in 1996. See Appendix II, Family income for information on the imputation process. Percent of poverty level was unknown for 19 percent of sample persons under 65 in 1997, 24 percent in 1998, and 27 percent in 1999.

⁶MSA is metropolitan statistical area.

⁷Private insurance originally obtained through a present or former employer or union. Starting in 1997 also includes private insurance obtained through workplace, self-employed, or professional association.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey, health insurance supplements (1984, 1989, 1994–1996). Starting in 1997 data are from the family core questionnaires.

Table 129 (page 1 of 2). Medicaid coverage among persons under 65 years of age, according to selected characteristics: United States, selected years 1984–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| <i>Characteristic</i> | <i>1984</i> | <i>1989</i> | <i>1994¹</i> | <i>1995</i> | <i>1996</i> | <i>1997¹</i> | <i>1998</i> | <i>1999</i> |
|-----------------------------------------------|-------------|-------------|-------------------------|-------------|-------------|-------------------------|-------------|-------------|
| Number in millions | | | | | | | | |
| Total ² | 14.0 | 15.4 | 25.7 | 26.6 | 25.0 | 22.9 | 21.1 | 21.9 |
| Percent of population | | | | | | | | |
| Total, age adjusted ^{2,3} | 6.7 | 7.1 | 11.0 | 11.3 | 10.5 | 9.6 | 8.8 | 9.0 |
| Total, crude ² | 6.8 | 7.2 | 11.2 | 11.5 | 10.8 | 9.7 | 8.9 | 9.1 |
| Age | | | | | | | | |
| Under 18 years | 11.9 | 12.6 | 21.2 | 21.5 | 20.1 | 18.4 | 17.1 | 18.1 |
| Under 6 years | 15.5 | 15.7 | 28.4 | 29.3 | 27.4 | 24.7 | 22.4 | 23.5 |
| 6–17 years | 10.1 | 10.9 | 17.2 | 17.4 | 16.4 | 15.2 | 14.5 | 15.5 |
| 18–44 years | 5.1 | 5.2 | 7.8 | 7.8 | 7.3 | 6.6 | 5.8 | 5.7 |
| 18–24 years | 6.4 | 6.8 | 10.2 | 10.4 | 9.2 | 8.8 | 8.0 | 8.1 |
| 25–34 years | 5.3 | 5.2 | 8.3 | 8.2 | 7.5 | 6.8 | 5.7 | 5.7 |
| 35–44 years | 3.5 | 4.0 | 5.9 | 5.9 | 6.0 | 5.2 | 4.6 | 4.3 |
| 45–64 years | 3.4 | 4.3 | 4.7 | 5.6 | 5.2 | 4.6 | 4.5 | 4.4 |
| 45–54 years | 3.2 | 3.8 | 4.0 | 5.1 | 4.8 | 4.0 | 4.1 | 3.9 |
| 55–64 years | 3.6 | 4.9 | 5.7 | 6.4 | 5.7 | 5.6 | 5.0 | 5.3 |
| Sex ³ | | | | | | | | |
| Male | 5.2 | 5.6 | 8.8 | 9.2 | 8.7 | 8.1 | 7.5 | 7.7 |
| Female | 8.0 | 8.6 | 13.0 | 13.3 | 12.4 | 11.0 | 10.1 | 10.4 |
| Race ^{3,4} | | | | | | | | |
| White | 4.6 | 5.1 | 8.3 | 8.8 | 8.4 | 7.5 | 6.7 | 7.0 |
| Black | 18.9 | 17.8 | 26.1 | 26.0 | 22.2 | 20.5 | 19.6 | 18.6 |
| Asian or Pacific Islander | 9.1 | 11.3 | 9.9 | 10.7 | 11.3 | 9.4 | 6.7 | 9.2 |
| Hispanic origin and race ³ | | | | | | | | |
| All Hispanic ⁴ | 12.2 | 12.7 | 18.6 | 19.8 | 17.9 | 16.0 | 14.1 | 14.1 |
| Mexican | 11.1 | 11.5 | 17.4 | 18.8 | 16.8 | 15.3 | 12.6 | 12.4 |
| Puerto Rican | 28.6 | 26.9 | 35.3 | 31.1 | 31.1 | 28.9 | 24.5 | 27.0 |
| Cuban | 4.8 | 7.8 | *8.6 | 13.8 | 12.6 | 8.2 | *9.1 | 8.3 |
| Other Hispanic | 7.4 | 10.4 | 15.2 | 16.9 | 14.5 | 13.9 | 13.9 | 13.8 |
| White, non-Hispanic | 3.7 | 4.2 | 6.7 | 7.1 | 6.8 | 6.2 | 5.7 | 6.0 |
| Black, non-Hispanic | 19.1 | 17.8 | 26.1 | 25.6 | 21.9 | 20.3 | 19.4 | 18.6 |
| Age and percent of poverty level ⁵ | | | | | | | | |
| All ages: ³ | | | | | | | | |
| Below 100 percent | 30.5 | 35.3 | 42.7 | 44.7 | 43.9 | 38.8 | 37.9 | 36.8 |
| 100–149 percent | 7.5 | 11.0 | 15.9 | 18.0 | 16.1 | 17.5 | 16.0 | 18.6 |
| 150–199 percent | 3.1 | 5.0 | 6.4 | 7.9 | 7.2 | 7.4 | 7.2 | 9.8 |
| 200 percent or more | 0.6 | 1.1 | 1.6 | 1.8 | 1.5 | 1.7 | 1.8 | 2.0 |
| Under 18 years: | | | | | | | | |
| Below 100 percent | 43.1 | 47.8 | 64.3 | 66.0 | 65.9 | 59.7 | 58.7 | 59.9 |
| 100–149 percent | 9.0 | 12.3 | 24.3 | 27.2 | 24.8 | 30.2 | 25.9 | 33.5 |
| 150–199 percent | 4.4 | 6.1 | 10.0 | 13.1 | 10.8 | 12.2 | 12.8 | 18.0 |
| 200 percent or more | 0.8 | 1.6 | 2.9 | 3.3 | 2.6 | 2.9 | 3.2 | 3.7 |

See footnotes at end of table.

Table 129 (page 2 of 2). Medicaid coverage among persons under 65 years of age, according to selected characteristics: United States, selected years 1984–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| <i>Characteristic</i> | <i>1984</i> | <i>1989</i> | <i>1994¹</i> | <i>1995</i> | <i>1996</i> | <i>1997¹</i> | <i>1998</i> | <i>1999</i> |
|------------------------------------|-----------------------|-------------|-------------------------|-------------|-------------|-------------------------|-------------|-------------|
| Geographic region ³ | Percent of population | | | | | | | |
| Northeast | 8.5 | 6.8 | 11.4 | 11.7 | 11.2 | 11.2 | 9.8 | 10.1 |
| Midwest | 7.2 | 7.5 | 10.2 | 10.3 | 8.4 | 8.2 | 7.5 | 7.3 |
| South | 5.0 | 6.4 | 10.6 | 11.1 | 10.7 | 8.6 | 8.6 | 8.9 |
| West | 6.9 | 8.2 | 11.9 | 12.4 | 12.1 | 11.4 | 9.7 | 10.3 |
| Location of residence ³ | | | | | | | | |
| Within MSA ⁶ | 7.1 | 7.0 | 11.1 | 11.1 | 10.0 | 9.5 | 8.5 | 8.4 |
| Outside MSA ⁶ | 5.9 | 7.8 | 10.4 | 12.0 | 12.5 | 9.9 | 9.8 | 11.5 |

* Estimates are considered unreliable. Data preceded by an asterisk have a relative standard error of 20–30 percent.

¹The questionnaire changed compared with previous years. See Appendix II, Health insurance coverage.

²Includes all other races not shown separately and unknown poverty level.

³Estimates are age adjusted to the year 2000 standard using three age groups: under 18 years, 18–44 years, and 45–64 years. See Appendix II, Age adjustment.

⁴The race groups white, black, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

Race groups such as American Indian or Alaska Native are not shown when sample sizes are too small to obtain reliable estimates.

⁵Prior to 1997 percent of poverty level is based on family income and family size using Bureau of the Census poverty thresholds. Beginning in 1997 percent of poverty level is based on family income, family size, number of children in the family, and, for families with two or fewer adults, the age of adults in the family. See Appendix II, Poverty level. Missing family income data were imputed for 17 percent of the sample under 65 years of age in 1994, 15 percent in 1995, and 16 percent in 1996. See Appendix II, Family income for information on the imputation process. Percent of poverty level was unknown for 19 percent of sample persons under 65 in 1997, 24 percent in 1998, and 27 percent in 1999.

⁶MSA is metropolitan statistical area.

NOTES: Medicaid includes other public assistance through 1996. Starting in 1997 includes state-sponsored health plans. Starting in 1999 includes Child Health Insurance Program (CHIP). In 1999, of the 8.2 percent (age-adjusted) covered by Medicaid 0.6 percent were covered by state-sponsored health plans only and 0.3 percent by CHIP.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey, health insurance supplements (1984, 1989, 1994–1996). Starting in 1997 data are from the family core questionnaires.

Table 130 (page 1 of 2). No health care coverage among persons under 65 years of age, according to selected characteristics: United States, selected years 1984–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| <i>Characteristic</i> | <i>1984</i> | <i>1989</i> | <i>1994¹</i> | <i>1995</i> | <i>1996</i> | <i>1997¹</i> | <i>1998</i> | <i>1999</i> |
|-----------------------------------------------|-------------|-------------|-------------------------|-------------|-------------|-------------------------|-------------|-------------|
| Number in millions | | | | | | | | |
| Total ² | 29.8 | 33.4 | 40.0 | 37.1 | 38.9 | 41.0 | 39.2 | 38.5 |
| Percent of population | | | | | | | | |
| Total, age adjusted ^{2,3} | 14.3 | 15.3 | 17.2 | 15.9 | 16.6 | 17.4 | 16.5 | 16.1 |
| Total, crude ² | 14.5 | 15.6 | 17.5 | 16.1 | 16.7 | 17.5 | 16.6 | 16.1 |
| Age | | | | | | | | |
| Under 18 years | 13.9 | 14.7 | 15.0 | 13.4 | 13.4 | 14.0 | 12.7 | 11.9 |
| Under 6 years | 14.9 | 15.1 | 13.4 | 11.8 | 11.9 | 12.5 | 11.5 | 11.0 |
| 6–17 years | 13.4 | 14.5 | 15.8 | 14.3 | 14.1 | 14.7 | 13.3 | 12.3 |
| 18–44 years | 17.1 | 18.4 | 21.7 | 20.4 | 21.2 | 22.4 | 21.4 | 21.0 |
| 18–24 years | 25.0 | 27.1 | 30.8 | 28.0 | 29.6 | 30.1 | 29.0 | 27.4 |
| 25–34 years | 16.2 | 18.3 | 21.9 | 21.1 | 22.5 | 23.8 | 22.2 | 22.1 |
| 35–44 years | 11.2 | 12.3 | 15.9 | 15.1 | 15.2 | 16.7 | 16.4 | 16.3 |
| 45–64 years | 9.6 | 10.5 | 12.0 | 10.9 | 12.1 | 12.4 | 12.2 | 12.2 |
| 45–54 years | 10.5 | 11.0 | 12.5 | 11.6 | 12.5 | 12.8 | 12.6 | 12.8 |
| 55–64 years | 8.7 | 10.0 | 11.2 | 9.9 | 11.6 | 11.8 | 11.4 | 11.4 |
| Sex ³ | | | | | | | | |
| Male | 15.0 | 16.4 | 18.5 | 17.2 | 17.8 | 18.5 | 17.5 | 17.2 |
| Female | 13.6 | 14.3 | 16.1 | 14.6 | 15.4 | 16.2 | 15.5 | 15.0 |
| Race ^{3,4} | | | | | | | | |
| White | 13.4 | 14.2 | 16.6 | 15.3 | 15.9 | 16.3 | 15.2 | 14.7 |
| Black | 20.0 | 21.4 | 19.7 | 18.2 | 19.8 | 20.2 | 20.7 | 19.4 |
| Asian or Pacific Islander | 18.0 | 18.5 | 20.1 | 18.2 | 19.1 | 19.3 | 18.1 | 16.3 |
| Hispanic origin and race ³ | | | | | | | | |
| All Hispanic ⁴ | 29.1 | 32.4 | 31.8 | 31.5 | 32.7 | 34.3 | 34.0 | 33.9 |
| Mexican | 33.2 | 38.8 | 36.2 | 36.2 | 38.0 | 39.2 | 40.0 | 38.0 |
| Puerto Rican | 18.1 | 23.3 | 15.7 | 18.3 | 15.1 | 19.4 | 19.4 | 19.8 |
| Cuban | 21.6 | 20.9 | 27.4 | 22.1 | 18.9 | 20.5 | 18.4 | 19.7 |
| Other Hispanic | 27.5 | 25.2 | 30.7 | 29.7 | 30.8 | 32.9 | 31.1 | 30.8 |
| White, non-Hispanic | 11.8 | 11.9 | 14.4 | 12.9 | 13.3 | 13.7 | 12.5 | 12.1 |
| Black, non-Hispanic | 19.7 | 21.3 | 19.3 | 18.1 | 19.7 | 20.1 | 20.7 | 19.3 |
| Age and percent of poverty level ⁵ | | | | | | | | |
| All ages: ³ | | | | | | | | |
| Below 100 percent | 34.7 | 35.8 | 33.1 | 31.7 | 34.4 | 34.4 | 34.6 | 34.4 |
| 100–149 percent | 27.0 | 31.3 | 35.0 | 31.7 | 34.0 | 36.1 | 36.5 | 35.8 |
| 150–199 percent | 17.4 | 21.8 | 26.1 | 24.0 | 23.5 | 25.9 | 26.7 | 27.7 |
| 200 percent or more | 5.8 | 6.8 | 9.2 | 8.6 | 7.8 | 8.8 | 8.0 | 7.7 |
| Under 18 years: | | | | | | | | |
| Below 100 percent | 28.9 | 31.6 | 22.1 | 20.0 | 21.3 | 22.4 | 21.5 | 21.6 |
| 100–149 percent | 22.8 | 26.1 | 27.7 | 24.8 | 25.2 | 26.1 | 28.0 | 24.9 |
| 150–199 percent | 12.7 | 15.8 | 19.1 | 18.0 | 16.1 | 19.7 | 17.3 | 18.8 |
| 200 percent or more | 4.2 | 4.4 | 7.1 | 6.4 | 5.3 | 6.1 | 5.0 | 4.4 |

See footnotes at end of table.

Table 130 (page 2 of 2). No health care coverage among persons under 65 years of age, according to selected characteristics: United States, selected years 1984–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| <i>Characteristic</i> | <i>1984</i> | <i>1989</i> | <i>1994¹</i> | <i>1995</i> | <i>1996</i> | <i>1997¹</i> | <i>1998</i> | <i>1999</i> |
|------------------------------------|-------------|-------------|-------------------------|-----------------------|-------------|-------------------------|-------------|-------------|
| Geographic region ³ | | | | Percent of population | | | | |
| Northeast | 10.1 | 10.7 | 13.6 | 13.1 | 13.6 | 13.4 | 12.3 | 12.2 |
| Midwest | 11.1 | 10.5 | 12.2 | 12.1 | 12.3 | 13.1 | 11.9 | 11.5 |
| South | 17.4 | 19.4 | 21.0 | 19.2 | 20.1 | 20.7 | 20.0 | 19.8 |
| West | 17.8 | 18.4 | 20.4 | 17.7 | 18.7 | 20.4 | 19.9 | 18.6 |
| Location of residence ³ | | | | | | | | |
| Within MSA ⁶ | 13.3 | 14.9 | 16.7 | 15.2 | 15.8 | 16.7 | 15.8 | 15.3 |
| Outside MSA ⁶ | 16.4 | 16.9 | 19.0 | 18.7 | 19.7 | 19.9 | 19.2 | 18.9 |

¹The questionnaire changed compared with previous years. See Appendix II, Health insurance coverage.

²Includes all other races not shown separately and unknown poverty level.

³Estimates are age adjusted to the year 2000 standard using three age groups: under 18 years, 18–44 years, and 45–64 years. See Appendix II, Age adjustment.

⁴The race groups white, black, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

Race groups such as American Indian or Alaska Native are not shown when sample sizes are too small to obtain reliable estimates.

⁵Prior to 1997 percent of poverty level is based on family income and family size using Bureau of the Census poverty thresholds. Beginning in 1997 percent of poverty level is based on family income, family size, number of children in the family, and, for families with two or fewer adults, the age of adults in the family. See Appendix II, Poverty level. Missing family income data were imputed for 17 percent of the sample under 65 years of age in 1994, 15 percent in 1995, and 16 percent in 1996. See Appendix II, Family income for information on the imputation process. Percent of poverty level was unknown for 19 percent of sample persons under 65 in 1997, 24 percent in 1998, and 27 percent in 1999.

⁶MSA is metropolitan statistical area.

NOTES: Persons not covered by private insurance, Medicaid, Child Health Insurance Program (CHIP), public assistance (through 1996), state-sponsored or other government-sponsored health plans (starting in 1997), Medicare, or military plans are included. See Appendix II, Health insurance coverage.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey, health insurance supplements (1984, 1989, 1994–1996). Starting in 1997 data are from the family core questionnaires.

Table 131 (page 1 of 2). Health care coverage for persons 65 years of age and over, according to type of coverage and selected characteristics: United States, selected years 1989–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Private insurance ¹ | | | | | Private insurance obtained through workplace ^{1,2} | | | | |
|----------------------------------------------|--------------------------------|-------------------|-------------------|------|------|-------------------------------------------------------------|-------------------|-------------------|------|------|
| | 1989 | 1995 ³ | 1997 ³ | 1998 | 1999 | 1989 | 1995 ³ | 1997 ³ | 1998 | 1999 |
| Number in millions | | | | | | | | | | |
| Total ⁴ | 22.4 | 23.5 | 22.3 | 21.5 | 20.8 | 11.2 | 12.4 | 12.0 | 11.8 | 11.1 |
| Percent of population | | | | | | | | | | |
| Total, age adjusted ^{4,5} | 76.1 | 74.5 | 69.5 | 66.7 | 64.0 | 37.3 | 38.9 | 37.0 | 36.5 | 34.1 |
| Total, crude ⁴ | 76.5 | 74.6 | 69.5 | 66.7 | 64.1 | 38.4 | 39.5 | 37.5 | 36.7 | 34.3 |
| Age | | | | | | | | | | |
| 65–74 years | 78.2 | 75.1 | 69.9 | 66.6 | 64.5 | 43.7 | 43.3 | 42.0 | 39.7 | 37.9 |
| 75 years and over | 73.9 | 73.9 | 69.1 | 66.8 | 63.5 | 30.2 | 34.1 | 31.6 | 33.0 | 29.9 |
| 75–84 years | 75.9 | 75.7 | 70.2 | 68.1 | 64.6 | 32.0 | 36.0 | 33.2 | 35.1 | 31.9 |
| 85 years and over | 65.5 | 67.3 | 64.7 | 61.8 | 59.6 | 22.8 | 27.3 | 25.6 | 25.3 | 23.0 |
| Sex ⁵ | | | | | | | | | | |
| Male | 77.4 | 76.6 | 72.1 | 68.5 | 64.5 | 42.1 | 43.3 | 42.0 | 40.7 | 37.8 |
| Female | 75.4 | 73.2 | 67.7 | 65.5 | 63.8 | 34.0 | 35.8 | 33.5 | 33.6 | 31.4 |
| Race ^{5,6} | | | | | | | | | | |
| White | 79.8 | 78.3 | 72.7 | 70.3 | 67.5 | 38.7 | 40.4 | 37.9 | 37.9 | 35.1 |
| Black | 42.3 | 40.3 | 42.5 | 40.3 | 40.2 | 23.7 | 24.6 | 30.8 | 27.3 | 27.3 |
| Hispanic origin and race ⁵ | | | | | | | | | | |
| All Hispanic ⁶ | 42.3 | 39.8 | 30.6 | 29.1 | 26.9 | 22.2 | 18.4 | 17.7 | 17.8 | 17.3 |
| Mexican | 33.5 | 31.8 | 31.8 | 26.5 | 27.4 | 20.2 | 15.9 | 17.7 | 17.2 | 16.8 |
| White, non-Hispanic | 81.0 | 80.3 | 74.9 | 72.3 | 69.6 | 39.3 | 41.7 | 39.0 | 38.8 | 36.2 |
| Black, non-Hispanic | 42.4 | 40.1 | 42.6 | 40.5 | 40.4 | 23.7 | 24.4 | 30.7 | 27.6 | 27.4 |
| Percent of poverty level ^{5,7} | | | | | | | | | | |
| Below 100 percent | 46.1 | 40.0 | 31.9 | 32.8 | 28.3 | 11.6 | 13.8 | 7.2 | 10.0 | 8.5 |
| 100–149 percent | 67.7 | 67.6 | 54.5 | 48.7 | 44.6 | 22.2 | 26.7 | 17.4 | 19.1 | 14.7 |
| 150–199 percent | 81.1 | 76.0 | 69.8 | 65.6 | 62.0 | 39.0 | 38.7 | 33.3 | 30.9 | 27.0 |
| 200 percent or more | 85.5 | 85.3 | 81.8 | 78.6 | 75.5 | 49.4 | 49.3 | 48.5 | 49.1 | 44.6 |
| Geographic region ⁵ | | | | | | | | | | |
| Northeast | 76.1 | 76.2 | 72.7 | 72.0 | 66.0 | 42.2 | 44.6 | 42.3 | 43.0 | 39.2 |
| Midwest | 81.9 | 82.3 | 78.5 | 78.3 | 77.0 | 40.0 | 44.7 | 40.7 | 40.7 | 37.9 |
| South | 73.0 | 70.7 | 66.0 | 62.0 | 60.2 | 32.0 | 33.7 | 32.9 | 33.1 | 30.5 |
| West | 74.7 | 68.8 | 59.9 | 54.9 | 51.5 | 37.1 | 33.6 | 33.6 | 30.3 | 29.9 |
| Location of residence ⁵ | | | | | | | | | | |
| Within MSA ⁸ | 76.6 | 74.7 | 68.4 | 65.5 | 62.8 | 39.9 | 40.9 | 38.6 | 38.2 | 35.5 |
| Outside MSA ⁸ | 74.8 | 73.9 | 73.2 | 70.6 | 68.2 | 30.2 | 32.2 | 31.8 | 31.1 | 29.4 |

See footnotes at end of table.

Table 131 (page 2 of 2). Health care coverage for persons 65 years of age and over, according to type of coverage and selected characteristics: United States, selected years 1989–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Medicaid ^{1,9} | | | | | Medicare only ¹⁰ | | | | |
|----------------------------------------------|-------------------------|-------------------|-------------------|------|------|-----------------------------|-------------------|-------------------|------|------|
| | 1989 | 1995 ³ | 1997 ³ | 1998 | 1999 | 1989 | 1995 ³ | 1997 ³ | 1998 | 1999 |
| Number in millions | | | | | | | | | | |
| Total ⁴ | 2.0 | 3.0 | 2.5 | 2.6 | 2.4 | 4.5 | 4.6 | 6.7 | 7.5 | 8.5 |
| Percent of population | | | | | | | | | | |
| Total, age adjusted ^{4,5} | 7.2 | 9.6 | 7.9 | 8.1 | 7.4 | 15.7 | 14.8 | 20.8 | 23.3 | 26.3 |
| Total, crude ⁴ | 7.0 | 9.4 | 7.9 | 8.1 | 7.3 | 15.4 | 14.7 | 20.8 | 23.2 | 26.3 |
| Age | | | | | | | | | | |
| 65–74 years | 6.3 | 8.4 | 7.5 | 7.8 | 6.6 | 13.8 | 14.4 | 20.3 | 22.7 | 25.9 |
| 75 years and over | 8.2 | 10.9 | 8.4 | 8.4 | 8.1 | 17.8 | 15.2 | 21.5 | 24.0 | 26.8 |
| 75–84 years | 7.9 | 9.9 | 7.9 | 7.8 | 7.2 | 16.2 | 14.1 | 20.5 | 22.9 | 26.3 |
| 85 years and over | 9.7 | 14.3 | 10.2 | 10.5 | 11.4 | 24.9 | 19.2 | 25.2 | 27.9 | 28.5 |
| Sex ⁵ | | | | | | | | | | |
| Male | 5.2 | 5.8 | 5.1 | 6.2 | 5.3 | 14.9 | 14.3 | 19.6 | 21.9 | 26.2 |
| Female | 8.6 | 12.2 | 9.9 | 9.5 | 8.8 | 16.2 | 15.0 | 21.7 | 24.3 | 26.3 |
| Race ^{5,6} | | | | | | | | | | |
| White | 5.6 | 7.4 | 6.5 | 6.4 | 5.7 | 13.9 | 13.5 | 19.3 | 21.8 | 25.1 |
| Black | 21.2 | 28.4 | 19.7 | 18.0 | 18.2 | 34.9 | 29.0 | 34.8 | 38.1 | 37.0 |
| Hispanic origin and race ⁵ | | | | | | | | | | |
| All Hispanic ⁶ | 26.4 | 32.7 | 29.0 | 27.2 | 24.0 | 22.7 | 23.6 | 35.1 | 38.4 | 42.5 |
| White, non-Hispanic | 4.9 | 6.1 | 5.4 | 5.4 | 4.7 | 13.6 | 12.9 | 18.4 | 20.9 | 24.0 |
| Black, non-Hispanic | 21.1 | 28.5 | 19.5 | 18.0 | 18.1 | 34.9 | 29.1 | 34.8 | 37.9 | 37.1 |
| Percent of poverty level ^{5,7} | | | | | | | | | | |
| Below 100 percent | 28.2 | 36.4 | 40.0 | 36.7 | 35.7 | 26.4 | 23.4 | 27.0 | 28.4 | 32.7 |
| 100–149 percent | 9.0 | 12.8 | 13.9 | 14.1 | 15.3 | 20.7 | 18.6 | 28.3 | 33.2 | 35.9 |
| 150–199 percent | 4.7 | 5.9 | 5.1 | 6.1 | 4.2 | 13.6 | 16.8 | 22.7 | 26.1 | 31.5 |
| 200 percent or more | 2.4 | 2.4 | 2.7 | 3.5 | 2.9 | 11.0 | 10.8 | 14.6 | 16.7 | 19.7 |
| Geographic region ⁵ | | | | | | | | | | |
| Northeast | 5.4 | 8.9 | 6.5 | 7.5 | 7.3 | 17.4 | 15.3 | 19.8 | 19.3 | 25.5 |
| Midwest | 3.7 | 5.8 | 5.0 | 4.9 | 5.7 | 13.8 | 11.0 | 15.4 | 16.3 | 15.7 |
| South | 9.7 | 11.8 | 10.0 | 9.6 | 8.2 | 16.6 | 15.9 | 21.6 | 26.0 | 29.0 |
| West | 9.4 | 11.5 | 9.9 | 10.2 | 8.2 | 14.4 | 17.2 | 28.3 | 31.4 | 36.4 |
| Location of residence ⁵ | | | | | | | | | | |
| Within MSA ⁸ | 6.5 | 8.9 | 7.5 | 8.0 | 6.9 | 15.9 | 14.9 | 22.3 | 24.4 | 28.0 |
| Outside MSA ⁸ | 8.8 | 11.7 | 9.4 | 8.4 | 8.8 | 15.5 | 14.2 | 15.9 | 19.7 | 20.6 |

¹Almost all persons 65 years of age and over are covered by Medicare also. In 1998, 91 percent of older persons with private insurance also had Medicare.

²Private insurance originally obtained through a present or former employer or union. Starting in 1997 also includes private insurance obtained through workplace, self-employed, or professional association.

³The questionnaire changed compared with previous years. See Appendix II, Health insurance coverage.

⁴Includes all other races not shown separately and unknown poverty level.

⁵Estimates are age adjusted to the year 2000 standard using two age groups: 65–74 years and 75 years and over. See Appendix II, Age adjustment.

⁶The race groups white and black include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

Other race groups are not shown because sample sizes are too small to obtain reliable estimates.

⁷Prior to 1997 percent of poverty level is based on family income and family size using Bureau of the Census poverty thresholds. Beginning in 1997 percent of poverty level is based on family income, family size, number of children in the family, and, for families with two or fewer adults, the age of adults in the family. See Appendix II, Poverty level. Missing family income data were imputed for 25 percent of the sample 65 years of age and over in 1994, 22 percent in 1995, and 24 percent in 1996. See Appendix II, Family income for information on the imputation process. Percent of poverty level was unknown for 29 percent of sample persons 65 or older in 1997, 34 percent in 1998, and 38 percent in 1999.

⁸MSA is metropolitan statistical area.

⁹Includes public assistance through 1996. Starting in 1997 includes state-sponsored health plans. In 1999 the age-adjusted percent of the population 65 years of age and over covered by Medicaid was 7.4 percent, and 0.4 percent were covered by state-sponsored health plans.

¹⁰Persons covered by Medicare but not covered by private health insurance, Medicaid, public assistance (through 1996), state-sponsored or other government-sponsored health plans (starting in 1997), or military plans. See Appendix II, Health insurance coverage.

NOTES: Percents do not add to 100 because persons with both private health insurance and Medicaid appear in more than one column, and because the percent of persons without health insurance (1.1 percent in 1999) is not shown. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey, health insurance supplements (1984, 1989, 1994–1996). Starting in 1997 data are from the family core questionnaires.

Table 132. Private health insurance by health maintenance organization (HMO) and other types of coverage according to selected characteristics: United States, selected years 1989–99

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Private health insurance | | | | | | | | | |
|-----------------------------------------|----------------------------------------------|------|-------------------|------|------|-------|-------|-------------------|-------|-------|
| | Health maintenance organization ¹ | | | | | Other | | | | |
| | 1989 | 1995 | 1997 ² | 1998 | 1999 | 1989 | 1995 | 1997 ² | 1998 | 1999 |
| Number of persons in millions | | | | | | | | | | |
| Total ³ | 45.1 | 68.0 | 76.5 | 76.3 | 78.5 | 140.2 | 118.5 | 111.5 | 116.0 | 116.6 |
| Percent of population | | | | | | | | | | |
| Total, age adjusted ^{3,4} | 18.4 | 25.9 | 29.1 | 28.3 | 28.8 | 58.0 | 45.6 | 41.2 | 43.3 | 43.0 |
| Total, crude ³ | 18.5 | 26.0 | 28.7 | 28.4 | 28.9 | 57.6 | 45.3 | 41.8 | 43.1 | 42.9 |
| Age | | | | | | | | | | |
| Under 18 years | 20.1 | 27.2 | 29.9 | 30.1 | 30.4 | 51.7 | 37.8 | 36.2 | 38.3 | 38.4 |
| Under 6 years | 20.1 | 26.6 | 29.8 | 29.2 | 29.5 | 47.8 | 32.7 | 31.5 | 35.5 | 35.2 |
| 6–17 years | 20.2 | 27.5 | 30.0 | 30.5 | 30.9 | 53.8 | 40.5 | 38.5 | 39.7 | 40.0 |
| 18–44 years | 20.3 | 28.6 | 31.4 | 30.6 | 31.3 | 55.2 | 42.0 | 38.1 | 40.5 | 40.7 |
| 18–24 years | 16.6 | 21.9 | 24.9 | 25.0 | 26.2 | 47.8 | 38.6 | 34.4 | 36.5 | 37.0 |
| 25–34 years | 21.2 | 29.2 | 32.4 | 31.8 | 31.6 | 54.7 | 40.5 | 35.7 | 38.8 | 39.6 |
| 35–44 years | 21.7 | 31.9 | 34.1 | 32.7 | 34.0 | 61.0 | 45.6 | 42.3 | 44.2 | 43.8 |
| 45–64 years | 17.6 | 27.6 | 31.3 | 31.0 | 31.8 | 65.0 | 51.9 | 47.7 | 47.9 | 47.5 |
| 45–54 years | 19.6 | 29.5 | 33.6 | 32.5 | 33.4 | 63.9 | 50.9 | 46.9 | 47.5 | 47.0 |
| 55–64 years | 15.3 | 24.8 | 27.9 | 28.7 | 29.5 | 66.4 | 53.4 | 49.0 | 48.6 | 48.1 |
| 65 years or more | 10.4 | 12.2 | 12.5 | 12.4 | 12.0 | 67.0 | 61.6 | 57.0 | 54.3 | 52.0 |
| 65–74 years | 11.4 | 13.9 | 14.4 | 14.0 | 13.7 | 67.7 | 60.4 | 55.5 | 52.6 | 50.8 |
| 75 years or more | 8.9 | 9.7 | 10.0 | 10.5 | 9.9 | 65.9 | 63.3 | 59.0 | 56.3 | 53.6 |
| Sex ⁴ | | | | | | | | | | |
| Male | 18.5 | 26.0 | 29.0 | 28.3 | 28.8 | 58.2 | 46.2 | 41.8 | 43.7 | 43.2 |
| Female | 18.3 | 25.8 | 29.1 | 28.3 | 28.7 | 57.7 | 45.1 | 40.7 | 43.0 | 43.0 |
| Race ^{4,5} | | | | | | | | | | |
| White | 18.1 | 26.1 | 29.3 | 28.3 | 28.9 | 61.4 | 48.6 | 44.7 | 46.9 | 46.6 |
| Black | 19.7 | 23.7 | 27.9 | 27.6 | 28.5 | 37.2 | 28.7 | 25.8 | 26.4 | 27.4 |
| Asian or Pacific Islander | 24.1 | 31.9 | 35.2 | 34.7 | 33.5 | 45.0 | 33.2 | 30.5 | 33.6 | 33.9 |
| Hispanic origin and race ⁴ | | | | | | | | | | |
| All Hispanic ⁵ | 18.8 | 23.2 | 25.4 | 25.5 | 26.5 | 33.3 | 23.4 | 20.4 | 21.7 | 20.8 |
| Mexican | 16.6 | 21.5 | 23.6 | 23.8 | 24.9 | 30.3 | 20.9 | 18.7 | 19.4 | 20.5 |
| Puerto Rican | 16.6 | 22.3 | 23.9 | 26.4 | 27.2 | 28.3 | 24.8 | 20.9 | 23.0 | 21.1 |
| Cuban | 25.5 | 31.6 | 37.7 | 33.7 | 36.4 | 42.1 | 28.8 | 28.7 | 32.8 | 28.7 |
| Other Hispanic | 22.0 | 25.3 | 27.4 | 26.7 | 29.9 | 39.9 | 26.7 | 21.9 | 23.7 | 20.6 |
| White, non-Hispanic | 18.2 | 26.6 | 30.0 | 28.8 | 29.2 | 64.3 | 51.8 | 47.7 | 49.9 | 49.6 |
| Black, non-Hispanic | 19.7 | 23.8 | 27.9 | 27.6 | 28.6 | 37.3 | 28.9 | 26.1 | 26.5 | 27.4 |
| Percent of poverty level ^{4,6} | | | | | | | | | | |
| Below 100 percent | 5.4 | 7.2 | 8.8 | 8.9 | 9.6 | 24.5 | 17.5 | 14.8 | 16.2 | 16.8 |
| 100–149 percent | 13.4 | 16.3 | 17.3 | 17.1 | 15.5 | 42.7 | 33.5 | 26.0 | 27.0 | 25.1 |
| 150–199 percent | 17.3 | 22.8 | 26.2 | 24.8 | 23.3 | 54.7 | 43.2 | 38.4 | 37.2 | 36.4 |
| 200 percent or more | 22.5 | 32.7 | 37.1 | 35.1 | 35.8 | 68.0 | 54.9 | 50.0 | 52.0 | 51.2 |
| Geographic region ⁴ | | | | | | | | | | |
| Northeast | 20.1 | 30.1 | 37.7 | 36.7 | 39.0 | 61.4 | 45.2 | 36.2 | 39.2 | 36.7 |
| Midwest | 20.2 | 23.4 | 25.6 | 23.8 | 24.3 | 61.6 | 54.3 | 51.5 | 55.2 | 55.6 |
| South | 11.7 | 20.7 | 23.6 | 24.0 | 23.8 | 60.3 | 46.2 | 43.2 | 43.1 | 43.3 |
| West | 25.7 | 33.2 | 34.9 | 33.3 | 33.2 | 46.6 | 34.8 | 29.8 | 32.9 | 33.5 |
| Location of residence ⁴ | | | | | | | | | | |
| Within MSA ⁷ | 21.3 | 29.1 | 32.1 | 31.3 | 32.1 | 55.6 | 43.3 | 38.6 | 40.9 | 40.7 |
| Outside MSA ⁷ | 8.1 | 13.4 | 17.0 | 16.9 | 15.7 | 66.0 | 54.8 | 51.5 | 52.3 | 52.1 |

¹Persons reporting private health insurance coverage are considered to have health maintenance organization (HMO) coverage if they responded HMO or Individual Practice Association (IPA) when asked their plan type.

²The questionnaire changed compared with previous years. See Appendix II, Health insurance coverage.

³Includes all other races not shown separately and unknown poverty level.

⁴Estimates are age adjusted to the year 2000 standard using five age groups: Under 18 years, 18–44 years, 45–64 years, 65–74 years, and 75 years and over. See Appendix II, Age adjustment.

⁵The race groups white, black, and Asian or Pacific Islander include persons of Hispanic and non-Hispanic origin; persons of Hispanic origin may be of any race.

Other race groups are not shown because sample sizes are too small to obtain reliable estimates.

⁶Prior to 1997 percent of poverty level is based on family income and family size using Bureau of the Census poverty thresholds. Beginning in 1997 percent of poverty level is based on family income, family size, number of children in the family, and, for families with two or fewer adults, the age of adults in the family. See Appendix II, Poverty level. Missing family income data were imputed for 17 percent of the sample in 1994, 16 percent in 1995, and 17 percent in 1996. See Appendix II, Family income for information on the imputation process. Percent of poverty level was unknown for 20 percent of sample persons in 1997, 25 percent in 1998, and 28 percent in 1999.

⁷MSA is metropolitan statistical area.

NOTE: Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey, health insurance supplements (1989, 1994–1996). Starting in 1997 data are from the family core questionnaires.